SERVICE MANUAL

MODELS COVERED IN THIS MANUAL:

AJ-64CE
(ELECTRICALLY-HEATED)

AJ-64CS
(STEAM-HEATED)

Jackson

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P/N 7610-002-30-93 (Revision A)

www.jacksonmsc.com

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SPECIFICATIONS of the AJ-64CE/AJ-64CS

RACKS PER HOUR:

AJ-64CE:	287
AJ-64CS:	287

DISHES OR GLASSES PER HOUR:

AJ-64CE:	7200
AJ-64CS:	7200

WASH TANK CAPACITY (GALLONS):

AJ-64CE:	15.4
AJ-64CS:	15.4

WASH PUMP CAPACITY (GPM):

AJ-64CE:	270
AJ-64CS:	270

VENTING REQUIREMENTS (CFM)(100% CAP.):

INPUT END:	200
OUTPUT END:	400
TOTAL:	600

CONVEYOR SPEED (FPM):

AJ-64CE:	8.0
AJ-64CS:	8.0

GALLONS PER RACK:

AJ-64CE:	0.77
AJ-64CS:	0.77

WATER TEMPERATURES (°F):

ALL MODELS:

WASH (MINIMUM)	150
POWER RINSE (MINIMUM)	160
FINAL RINSE (MINIMUM)	180

FLOW PRESSSURE (PSI) 20 ±5

FLOWRATE (GPM) 3.7

ELECTRICAL REQUIREMENTS:

AJ-64CE (ALL ARE 60 HZ FREQUENCY):

VOLTS	PHASE	APPROX. AMPS
208	SINGLE	140 AMPS
230	SINGLE	128 AMPS
208	THREE	82 AMPS
230	THREE	76 AMPS
460	THREE	38 AMPS

AJ-64CS (ALL ARE 60 HZ FREQUENCY):

VOLTS	PHASE	APPROX. AMPS
208	SINGLE	19 AMPS
230	SINGLE	19 AMPS
208	THREE	13 AMPS
230	THREE	13 AMPS
460	THREE	7 AMPS

STEAM REQUIREMENTS (PSIG):

AJ-64CE:	N/A
AJ-64CS:	10 - 20

STEAM COIL SIZE IPS (INCHES):

AJ-64CE:	N/A
AJ-64CS:	3/4

STEAM CONSUMPTION @ 15 PSIG (LBS/HR):

AJ-64CE:	N/A
AJ-64CS:	100

NOTE: Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and may be subject to change without notice.

INSTALLATION INSTRUCTIONS

Jackson MSC Inc. provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is avaliable from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Technical support is not available on holidays. Contact technical support toll-free at 1-888-800-5672. Please remember that technical support is available for service personnel only. Non-service personnel should refer to the list of provided service agencies in this manual for local service support.

VISUAL INSPECTION: Before installing the unit, check the container and machine for damage. A damaged container is an indicator that there may be some damage to the machine. If there is damage to both the container and machine, do not throw away the container. The dishmachine has been inspected and packed at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may result in there being damage to the unit while in transit. If such a situation occurs, do not return the unit to Jackson; instead, contact the carrier and ask them to send a representative to the site to inspect the damage to the unit and to complete an inspection report. You must contact the carrier within 48 hours of receiving the machine. Also, contact the dealer through which you purchased the unit.

UNPACKING THE DISHMACHINE: Once the machine has been removed from the container, ensure that there are no missing parts from the machine. This may not be obvious at first. If it is discovered that an item is missing, contact Jackson immediately to have the missing item shipped to you.

LEVEL THE DISHMACHINE: The dishmachine is designed to operate while being level. This is important to prevent any damage to the machine during operation and to ensure the best results when washing ware. The unit comes with adjustable bullet feet, which can be turned using a pair of channel locks or by hand if the unit can be raised safely. Ensure that the unit is level from side to side and from front to back before making any connections.

PLUMBING THE DISHMACHINE: All plumbing connections must comply with all applicable local, state, and national plumbing codes. The plumber is responsible for ensuring that the incoming water line is throroughly flushed prior to connecting it to any component of the dishmachine. It is necessary to remove all foreign debris from the water line that may potentially get trapped in the valves or cause an obstruction. Any valves that are fouled as a result of foreign matter left in the water line, and any expenses resulting from this fouling, are not the responsibility of the manufacturer.

CONNECTING THE DRAIN LINE: All piping from the machine to the drain must be a minimum 1-1/2" I.P.S. and shall not be reduced. There must also be an air gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 30 gallons per minute.

WATER SUPPLY CONNECTION: Ensure that you have read the section entitled "PLUMBING THE DISHMACHINE" above before proceding. Install the water supply line (3/4" pipe size minimum) to the dishmachine line strainer using copper pipe. It is recommended that a water shut-off valve be installed in the water line between the main supply and the machine to allow access for service. The water supply line is to be capable of 20 ± 5 PSI "flow" pressure at the recommended temperature indicated on the data plate.

In areas where the water pressure fluctuates or is greater than the recommended pressure, it is suggested that a water pressure regulator be installed. The models covered in this manual do not come with water pressure regulators as standard equipment.

Do not confuse static pressure with flow pressure. Static pressure is the line pressure in a "no flow" condition (all valves and services are closed). Flow pressure is the pressure in the fill line when the fill valve is opened during the cycle.

It is recommended that a shock absorber (not supplied) be installed in the incoming water line. This prevents line hammer (hydraulic shock), induced by the solenoid valve as it operates, from causing damage to the equipment.

PLUMBING CHECK: Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

ELECTRICAL POWER CONNECTION: Electrical and grounding connections must comply with the applicable portions of the National Electrical Code ANSI/NFPA 70 (latest edition) and/or other electrical codes.

Disconnect electrical power supply and place a tag at the disconnect switch to indicate that you are working on the circuit.

The dishmachine data plate is located on the right side and to the front of the machine. Refer to the data plate for machine operating requirements, machine voltage, total amperage load and serial number.

To install the incoming power lines, open the control box. Install conduit into the pre-punched holes in the back of the control box. Route power wires and connect to power block and grounding lug. Install the service wires (L1, L2, and L3 (3 phase only)) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. Tighten the connections. It is recommended that "DE-OX" or another similar anti-oxidation agent be used on all power connections.

VOLTAGE CHECK: Ensure that the power switch is in the OFF position and apply power to the dishmachine. Check the incoming power at the terminal block and ensure it corresponds to the voltage listed on the data plate. If not, contact a qualified service agency to examine the problem. Do not run the dishmachine if the voltage is too high or too low. Shut off the service breaker and mark it as being for the dishmachine. Advise all proper personnel of any problems and of the location of the service breaker. Replace the control box cover and tighten down the screws.

VENTILATION OF DISHMACHINE: The dishmachine should be located with provisions for venting into an adequate exhaust hood or ventilation system. This is essential to permit efficient removal of the condensation exhaust. Ensure that the exhaust system is acceptable in accordance with all applicable codes and standards.

NOTE: Damage caused by steam or moisture due to improper ventilation is NOT covered under the warranty.

This units covered in this manual have the following exhaust requirements:

Load End:	200 CFM
Unload End:	400 CFM

The exhaust system must be sized to handle this volume for the dishmachine to operate as it was designed to.

ELECTRIC HEAT: The thermostats for the machines covered in this manual are factory set. They should not be adjusted except by an authorized service agent.

STEAM LINE CONNECTIONS: The machines covered in this manual are designed to use low pressure steam as a source of heat for wash tank water. The machines come with lines by which the source steam needs to be connected. Connect all steam lines to the machine as all applicable codes provide.

INSTALLATION INSTRUCTIONS (CONTINUED)/OPERATING INSTRUCTIONS

CHEMICAL FEEDER EQUIPMENT: Detergent may be introduced into the unit through the removal of the bulkhead plug in the rear of the tub and replacing it with the third party detergent injection fitting. Remove the bulkhead plug in the side of the tub to install the detergent concentration probe.

The 1/8" brass plugs on the incoming plumbing rinse injector may be removed to install rinse aid injection fittings.

All wires for the chemical injectors should be routed through the back of the control box.

Terminals in the control box marked "CVS" provide a constant voltage signal whenever the drive motor is operating.

Terminals in the control box marked "DET" provide a voltage signal whenever the wash motor is operating.

DELIMING OPERATIONS: In order to maintain the dishmachine at its optimum performance level, it will be required to remove lime and corrosion deposits on a frequent basis. A deliming solution should be available from your detergent supplier. Read and follow all instructions on the label of the deliming solution.

To proceed with the deliming operation, fill the dishmachine and add the correct amount of deliming solution as recommended by the deliming solution manufacturer. The water capacity of the various tanks of the dishmachine can be verified on the specification sheet(s) of this manual.

Perform the following operations to delime the dishmachine:

1. Turn the NORMAL/DELIME switch on the back of the control box to the DELIME position.

2. Disconnect or turn off all chemical feeder pumps.

3. Close all doors (after adding the deliming solution).

4. Run the machine for the recommended period of time.

5. Turn the unit off and open the doors.

6. Wait five minutes, then inspect the inside of the machine. If the machine is not delimed, run another time cycle as per the deliming solution's instructions.

7. When clean, drain and re-fill the machine.

8. Run in MANUAL for 10 minutes to remove residual deliming solution.

9. Drain and re-fill the machine.

This equipment is not recommend for use with deionized water or other aggressive fluids. Use of deionized water or other aggressive fluids will result in corrosion and failure of materials and components. Use of deionized water or other aggressive fluids will void the manufacturer's warranty.

OPERATING INSTRUCTIONS

PREPARATION: Before proceeding with the start-up of the unit, verify the following:

1. Close door(s) on dishmachine.

2. Close the drain valve(s).

POWER UP: To energize the unit, turn on the power at the service breaker. The voltage should have been previously verified as being correct. If not, the voltage will have to be verified. In accordance with the manufacturer's instructions you should also activate the steam booster and allow for flow of steam to the unit.

FILLING THE WASH TUB: Ensure that the delime switch is in the NORMAL position, and place the power switch into the ON position. The machine should fill automatically and shut off when the appropriate level is reached (just below the pan strainer). The wash tub must be completely filled before operating the wash pump to prevent damage to the component. Once the wash tub is filled, the unit is ready for operation.

WARE PREPARATION: Proper preparation of ware will help ensure good results and less re-washes. If not done properly, ware may not come out clean and the efficiency of the dishmachine will be reduced. It is important to remember that a dishmachine is not a garbage disposal and that simply throwing unscrapped dishes into the machine simply defeats the purpose altogether of washing the ware. Scraps should be removed from ware prior to being loaded into a rack. Pre-rinsing and pre-soaking are good ideas, especially for silverware and casserole dishes. Place cups and glasses upside down in racks so that they do not hold water during the cycle. The dishmachine is meant not only to clean, but to sanitize as well, to destroy all of the bacteria that could be harmful to human beings. In order to do this, ware must be properly prepared prior to being placed in the machine.

DAILY MACHINE PREPARATION: Refer to the section entitled "PREPARATION" at the top of this page and follow the instructions there. Afterwards, check that all of the chemical levels are correct and/or that there is plenty of detergent available for the expected workload.

WASHING A RACK OF WARE: To wash a rack, simply slide a rack of soiled ware into the load end of the machine. Once the the machine is started, it should pull the rack through the machine and push it out the unload end. Once a rack has started through, you may put another rack in.

OPERATIONAL INSPECTION: Based upon usage, the pan strainers may become clogged with soil and debris as the workday progresses. Operators should reguarly inspect the pan strainers to ensure they have not become clogged. If the strainers do, they will reduce the washing capability of the machine. Instruct operators to clean out the pan strainers at regular intervals or as required by work load.

SHUTDOWN AND CLEANING: At the end of the workday, place the power switch in the OFF position and open the door(s). Steam-heated units need to have the steam secured to the machine prior to any cleaning. Open the drain valves and allow the machine to drain completely. Remove the pawl bar assembly (clean as required). Remove the pan strainers and, if equiped, the prewash strainers, run off sheets and scrap basket strainer. Remove the wash and, if equipped, the prewash arms and verify that the nozzles and arms are free from obstructions. Flush the arms with fresh water. Remove the pump suction strainers and clean out as required. Remove the rinse tray assembly and clean. Remove the curtains and scrub with a mild detergent and warm water. Wipe out the inside of the unit and then reassemble with the components previously removed.

TROUBLESHOOTING SECTION

Problem: Nothing on dishmachine operates. The power switch is ON and the power indicator light is OFF.

1. Machine is not wired correctly to incoming power source. Have an electrician verify wiring.
2. Machine circuit breaker is tripped. Reset the circuit breaker. If it trips again, contact an electrician to verify the machine amp draw.
3. Service breaker is tripped. Reset the service breaker. If it trips again, contact an electrician to verify the machine amp draw.

Problem: Machine will not fill. The power switch is ON and the power indicator light is ON.

1. No water supply to machine. Verify that water lines have been connected to the machine.
2. Dishmachine doors are not closed. Close doors completely.
3. Incoming water solenoid valve damaged/faulty. Verify that the valve is operating. If not, replace.
4. Tank floats faulty. Verify the wiring of the floats. Verify that no debris is jamming the floats. Replace if necessary.

Problem: Machine fills, but fill is weak.

1. Low incoming water pressure. Verify that incoming water pressure during fill is 20 $\pm$5 PSI.
2. Incoming water solenoid is clogged. Verify that debris is not entrapped in valve. If so, remove debris.

Problem: Low wash tank temperature.

1. Low incoming water temperature. Verify that the incoming water temperature matches what is indicated on the machine data plate.
2. Heater not energizing. Verify that the wash tank heater is operating. If not, replace.
3. Low incoming voltage. Have an electrician verify that the power coming to the machine is the same as indicated on the data plate.

Problem: Low wash arm pressure, poor spray pattern.

1. Clogged wash arm nozzles. Verify that nozzles are not clogged with debris. If so, remove debris.
2. Clogged wash tank or wash pump strainers. Clean out strainers if necessary.
3. Worn wash pump impeller. Verify status of impeller, replace if necessary.

Problem: Low prewash arm pressure, poor spray pattern.

1. Clogged prewash arm nozzles. Verify that nozzles are not clogged with debris. If so, remove debris.
2. Clogged prewash tank or prewash pump strainers. Clean out strainers if necessary.
3. Worn prewash pump impeller. Verify status of impeller, replace if necessary.

Problem: Inadequate rinse.

1. Low incoming water pressure. Verify that incoming water pressure during fill is 20 $\pm$5 PSI.
2. Incoming water solenoid is clogged. Verify that debris is not entrapped in valve. If so, remove debris.

Problem: Pawl bar moves with no load, but does not move when loaded.

1. Clutch on drive assembly is out of adjustment. Adjust as required.

Problem: Pawl bar does not move.

1. Failed or broken overload spring. Replace spring if necessary.
2. No power to the drive motor/failed drive motor. Verify power and wiring connections to the motor. If necessary, replace the motor.
3. Pawl bar not properly installed. Verify that the pawl bar is installed correctly.

Problem: Racks go through the machine, but results are poor.

1. Verify that detergent is being dispensed into the machine at the appropriate quantities for the water volume. If not, get detergent to appropriate level and review results of washing ware.
2. Clogged strainers/scrap basket. Clean out strainers and scrap basket and replace.
3. Ware not being properly prescrapped. Review paragraph entitled ‘Ware Preparation” in Operating Instructions.
4. Wash or rinse arms missing end plugs or caps. Verify and replace as required.
5. Low tank heat (see previous page).
6. Inadequate rinse (see previous page).
7. Incorrect voltage coming to the machine. Verify that the voltage matches that on the machine data plate.
8. Wash pump cavitation due to low water level. Verify that the drains are shut and that the water level is correct.

TROUBLESHOOTING SECTION (CONTINUED)

Problem: Spotting of silverware, glasses and dishes.

1. Incorrect final rinse temperature. Verify that the rinse water temperature matches that which is listed on the machine data plate.
2. Clogged wash and/or rinse nozzles and arms. Remove the arms and verify that they and their nozzles are from debris.
3. Excessively hard water. Install a water softener to reduce hardness.
4. Loss of water pressure due to clogged/obstructed wash pump. Turn the power off to the machine at the source. Drain the wash tank of water and verify that the pump intake is free from debris.
5. Improper scrapping procedures. Review the paragraph entitled “Ware Preparation” in Operating Instructions.
6. incorrect detergent/chemcial concentrations. Verify that the detergent/chemical concentrations are correct for the associated water volume.

TORQUE SETTINGS

When replacing components either in the control box or the heater box area, the manufacturer has suggestions on how much to torque the screws and nuts used in securing items to the machine. Refer to the table below for the torque specifictions:

ITEMS	**TORQUE SPEC**
Relays	16 In/lbs
Heater Contactor	35 In/lbs
Heater Nuts	16 In/lbs
Terminal Block	50 In/lbs

DIMENSION PAGES LEGENDS/TABLE DIMENSIONS

The following pages contained dimensioned drawings to be used as references when installing your machine. The drawings also have several key points indicated , which can be referenced using the table below:

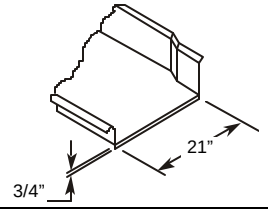
LETTER	DESCRIPTION
A	Electrical Connection - See Data Plate for Amperage Requirements
B	Water Inlet - 3/4” I.P.S. 180°F Water Required
C	Drain Connection - 1-1/2” I.P.S.
D	Vent Collar/Splash Shield
E	Vent Collar with Damper (4” W x 16” Lg x 7” High) Optional
F	Steam Connection 1” I.P.S.
G	Condensate Return 1” I.P.S.

All dimensions from a finished floor ar +/- 1/2” with the adjustable feet.

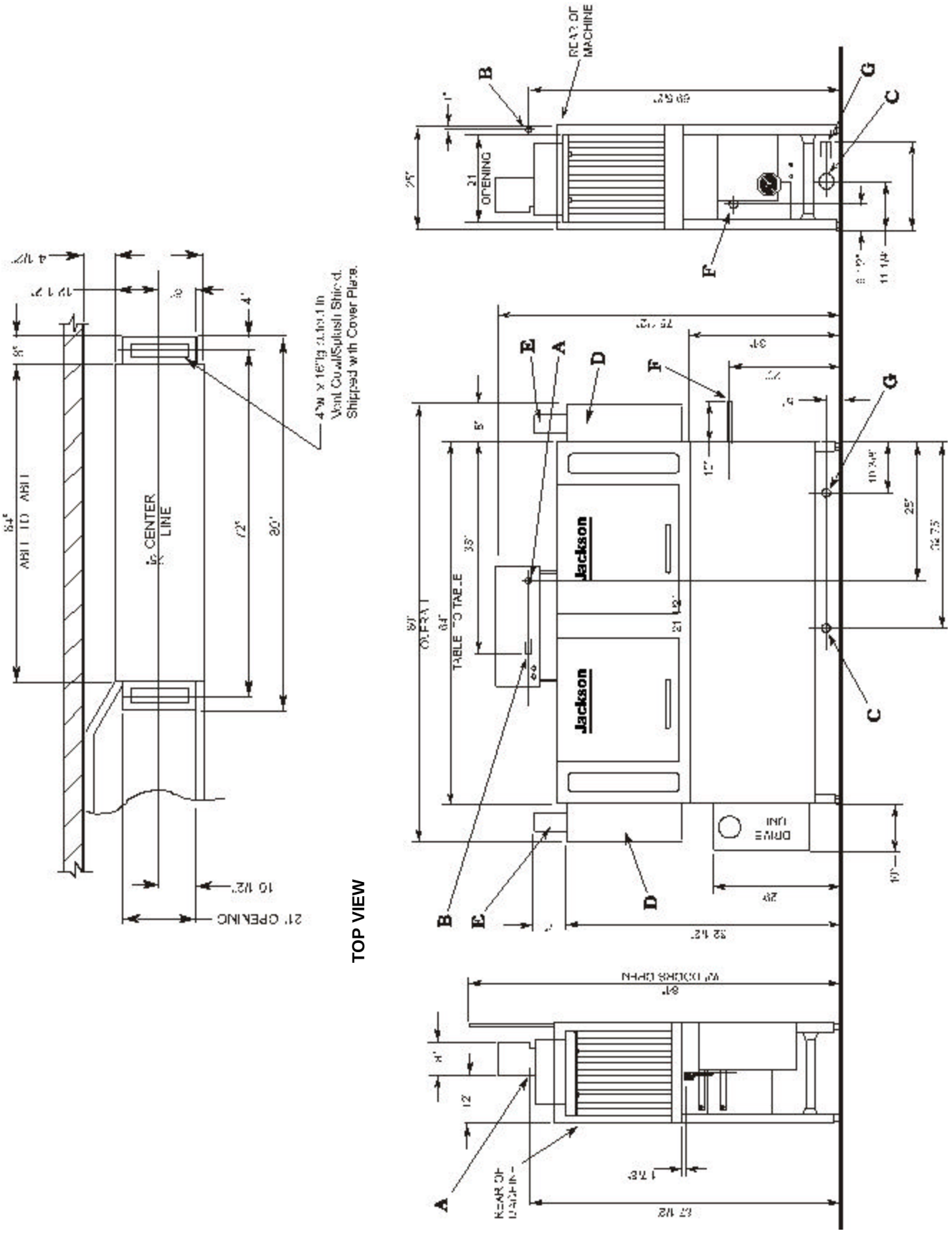
Utility connections, unless specifically noted, are identical regardless of direction of operation.

The material provided on this page is for reference only and may be subject to change without notice.

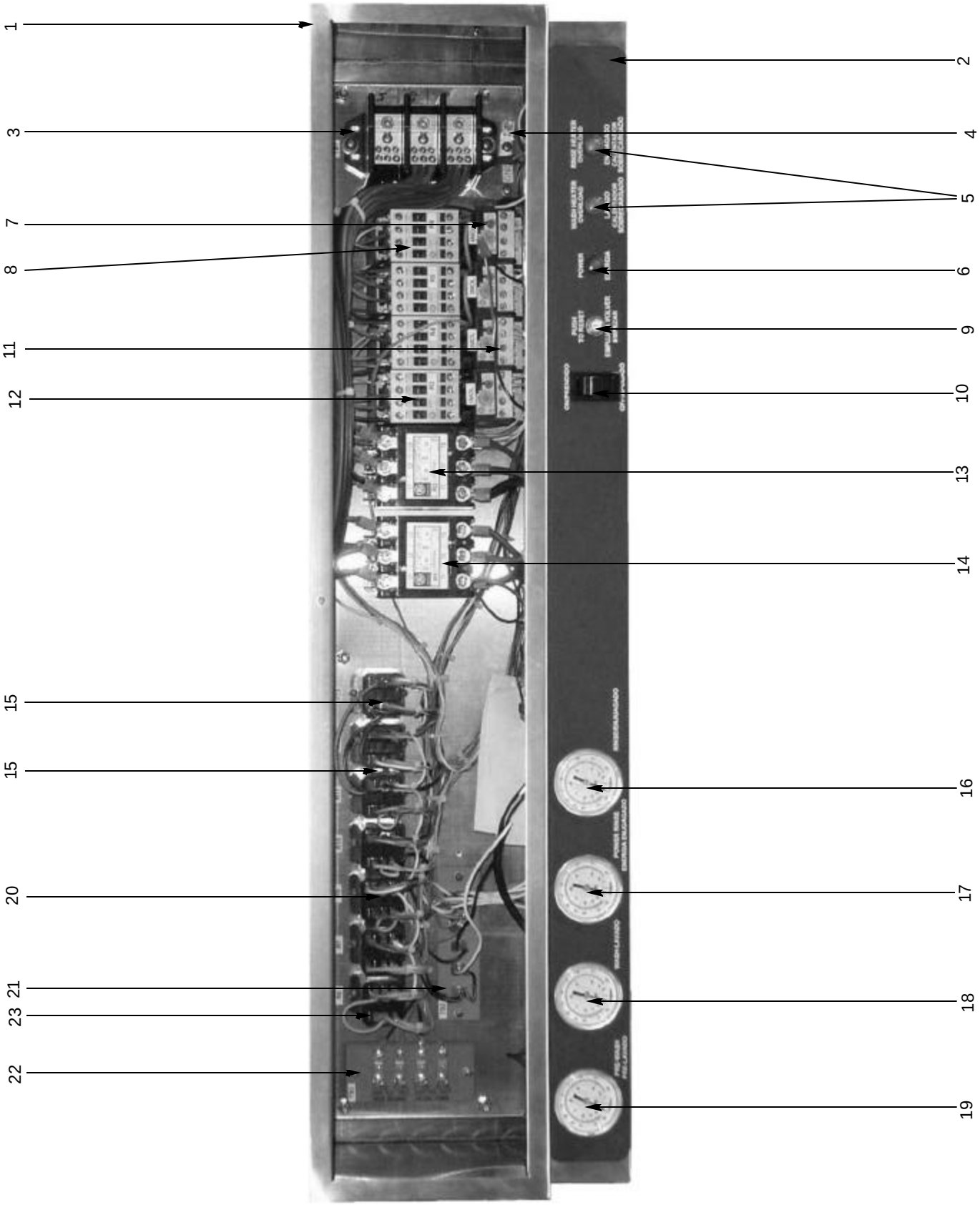
TABLE DIMENSIONS



AJ-64 DIMENSIONS



CONTROL BOX ASSEMBLY



CONTROL BOX ASSEMBLY (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Electrical Box Weldment	5700-041-88-44
	1	Electrical Box Inner Panel	5700-031-81-63
	1	Decal, Copper Conductors Only	9905-011-47-35
2	1	Decal, Guage, AJ-64	9905-021-82-65
3	1	Terminal Block	5940-011-48-27
		Decal, L1-L2-L3	9905-101-12-66
4	1	Ground Lug	5940-200-76-00
		Decal, Ground	9905-011-86-86
5	2	Light, Amber (Not used on steam models)	5945-111-44-44
6	1	Light, Red	5945-111-44-45
7	0	Not Applicable for AJ-64 Models	N/A
8	0	Not Applicable for AJ-64 Models	N/A
9	1	Circuit Breaker (208-230 volt models)	5925-011-68-34
10	1	Power Switch	5930-301-46-00
11	1	Overload, 1-1.5 RT1G (Drive Motor)(208-230 volt, 3 phase models)	5945-111-68-39
		Overload, .4-.63 RT1D (Drive Motor)(460 volt, 3 phase models)	5945-111-69-12
	2	Overload, 5.5-8.5 RT1M (Wash Motor)(208-230 volt, 3 phase models)	5945-111-68-40
		Overload, 4.0-6.3 RT1L (Wash Motor)(460 volt, 3 phase models)	5945-111-81-33
12	3	Contactor, Motor	5945-111-68-38
		Din Rail, 5-3/4" Long	5700-021-72-75
13	1	Contactor, Heater (Not used on steam models)	5945-002-24-70
14	1	Contactor, Heater (Not used on steam models)	5945-002-24-70
15	0	Not Applicable for AJ-64 Models	N/A
16	1	Rinse Thermometer	6685-111-68-49
17	1	Power Rinse Thermometer	6685-111-68-49
18	1	Wash Thermometer	6685-111-87-13
19	0	Not Applicable for AJ-64 Models	N/A
20	3	Relay, 2 Pole	5945-111-35-19
21	1	Terminal Board	5940-021-70-70
22	1	Terminal Board	5940-021-89-41
23	1	Relay, 3 Pole	5945-111-72-51

Items not shown:

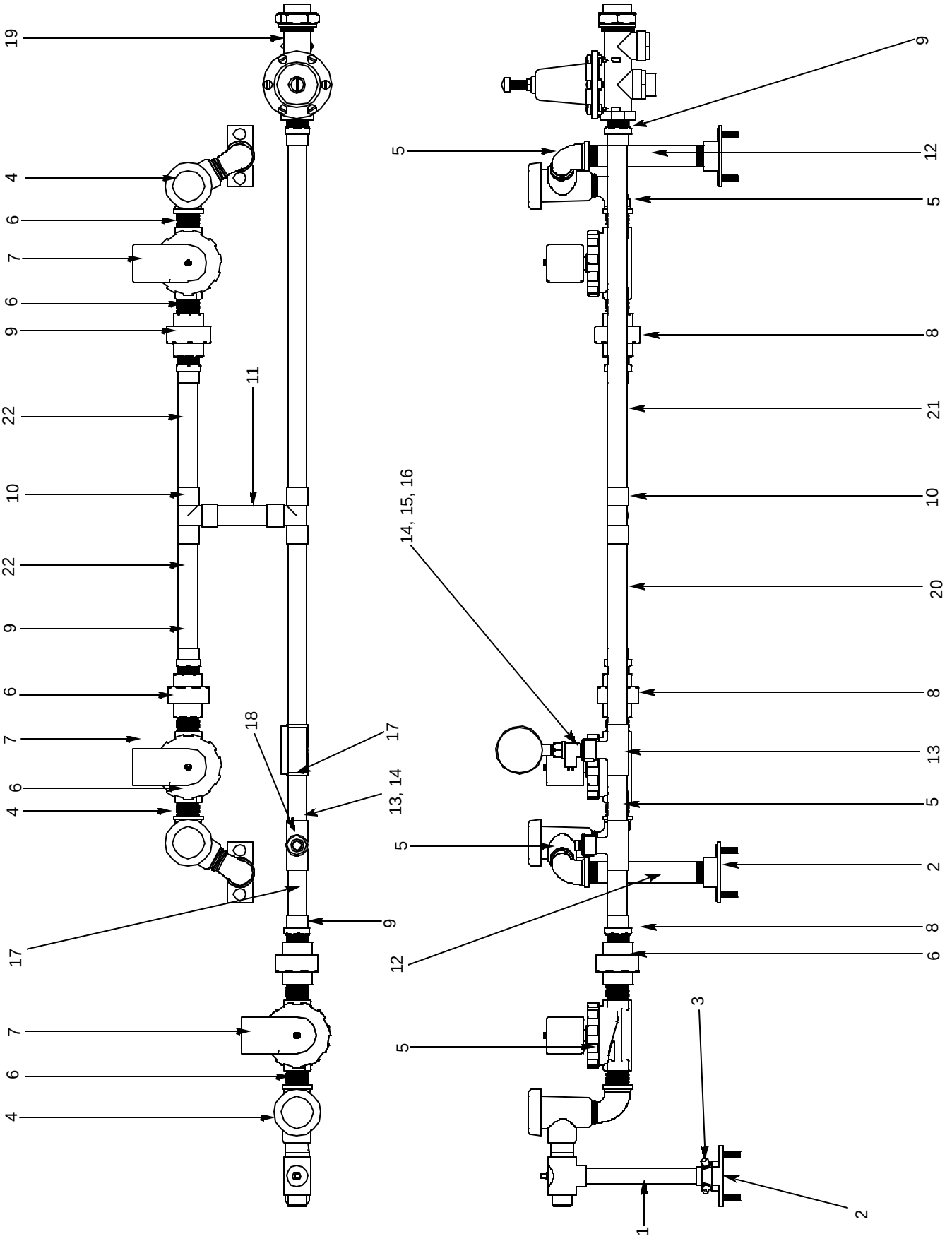
1	Manual/Delime Switch	5930-301-22-18
1	Manual/Delime Switch Decal	9905-011-74-61
1	Decal, High Limit Warning Light	9905-002-49-48
1	Transformer, 150V, 60 Cycle	5950-011-68-35
1	Control Box Cover	5700-031-91-17
4	Control Box Leg	5700-011-71-47

460 volt models only:

1	Fuse, 1/2 Amp	5920-011-72-88
1	Holder, Fuse	5920-011-72-89

NOTICE: The control box pictured on the previous page is of the AJ-86 variety which is an AJ-64 machine with an additonal prewash section. This accounts for any cosmetic differences.

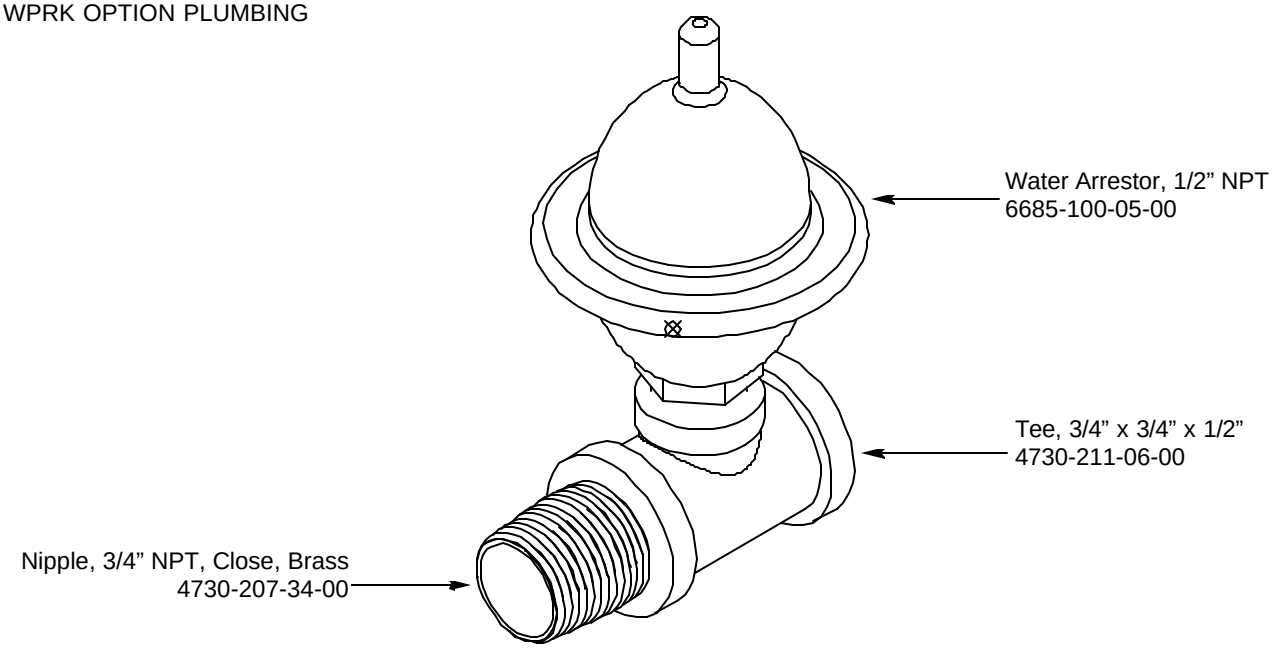
INCOMING PLUMBING ASSEMBLY



INCOMING PLUMBING ASSEMBLY (CONTINUED)/WPRK PLUMBING OPTION

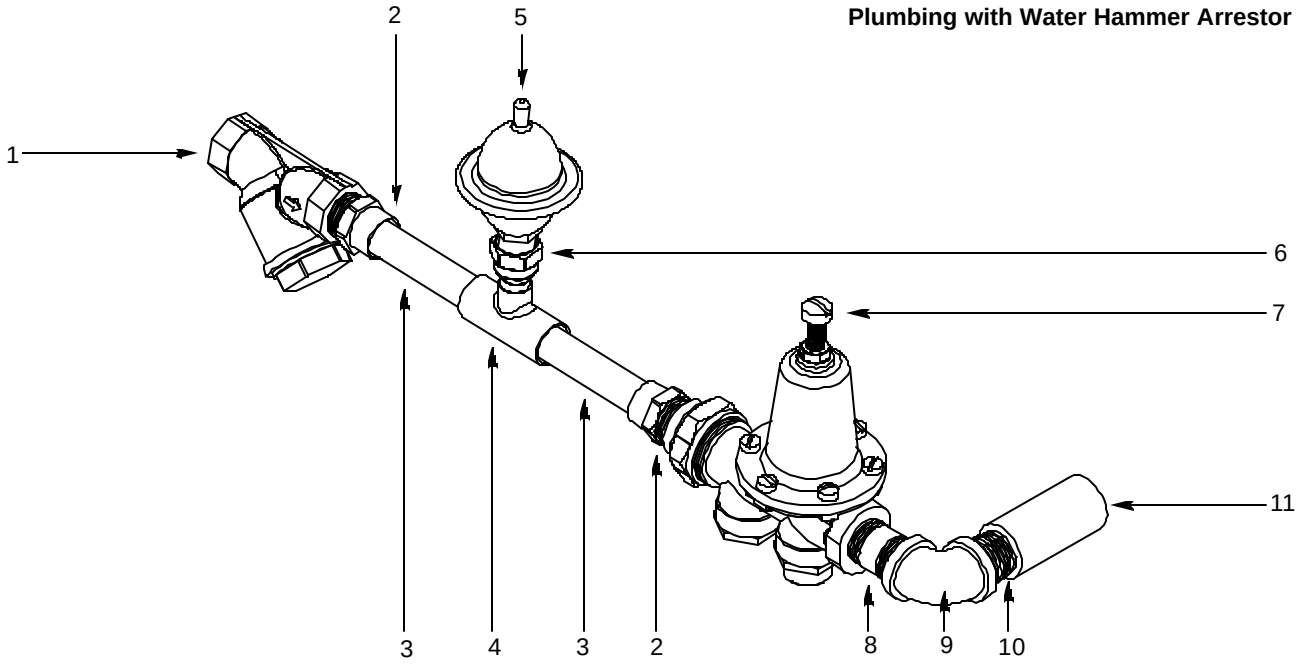
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Injector, Rinse Weldment	5700-021-67-98
2	2	Fill Line, Injector	5700-011-67-99
3	3	Plug, 1/8” NPT, Brass	4730-209-07-37
4	3	Vacuum Breaker, 3/4” NPT, Brass	4820-300-08-00
5	5	Elbow, 3/4” NPT, Street, Brass	4730-206-04-34
6	6	Nipple, 3/4” NPT, Close, Brass	4730-207-34-00
7	3	Valve, Solenoid, 3/4” NPT, 110 Volt	4810-100-53-00
8	3	Union, 3/4” NPT, Brass	4730-212-05-00
9	4	Adapter, 3/4” Male	4730-401-11-01
10	2	Tee, Copper, 3/4” CU x CU x CU	4730-411-46-01
11	1	Tube, Copper, 3/4” x 3” Long	5700-000-54-85
12	2	Nipple, 3/4” NPT, Brass, 6” Long	5700-001-26-74
13	2	Tee, Copper, 3/4” x 3/4” x 1/2”	4730-411-03-01
14	2	Adapter, Threaded, 1/4”	4730-401-41-01
15	1	Valve, Ball, Test Cock, 1/4” NPT	4810-011-72-67
16	1	Gauge, 0-100 PSI	6685-111-88-34
17	2	Tube, 3/4” x 2-13/16” Long	5700-011-72-72
18	1	Plug, 1/4”	4730-209-01-00
19	1	Regulator, Pressure, 3/4” NPT	6685-011-58-22
20	1	Tube, 3/4” x 9” Long	5700-000-75-61
21	1	Tube, 3/4” x 16-1/4” Long	5700-011-31-48
22	2	Tube, 3/4” x 5-1/2” Long	5700-002-61-46

WPRK OPTION PLUMBING



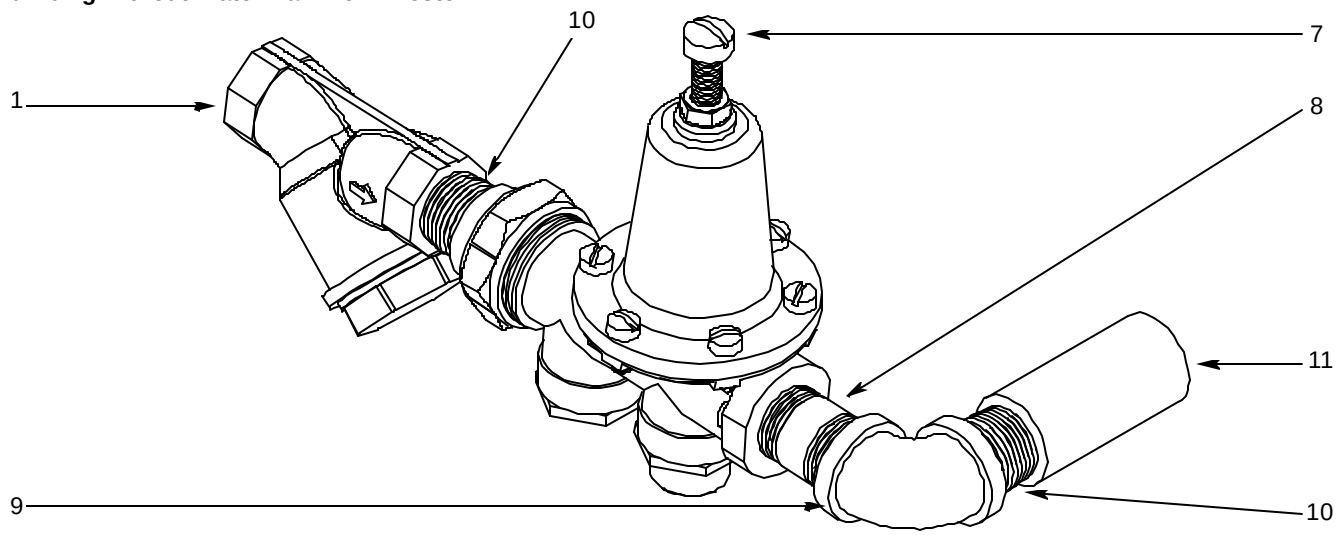
EXTERNAL ELECTRIC BOOSTER OPTION INCOMING PLUMBING

Plumbing with Water Hammer Arrestor

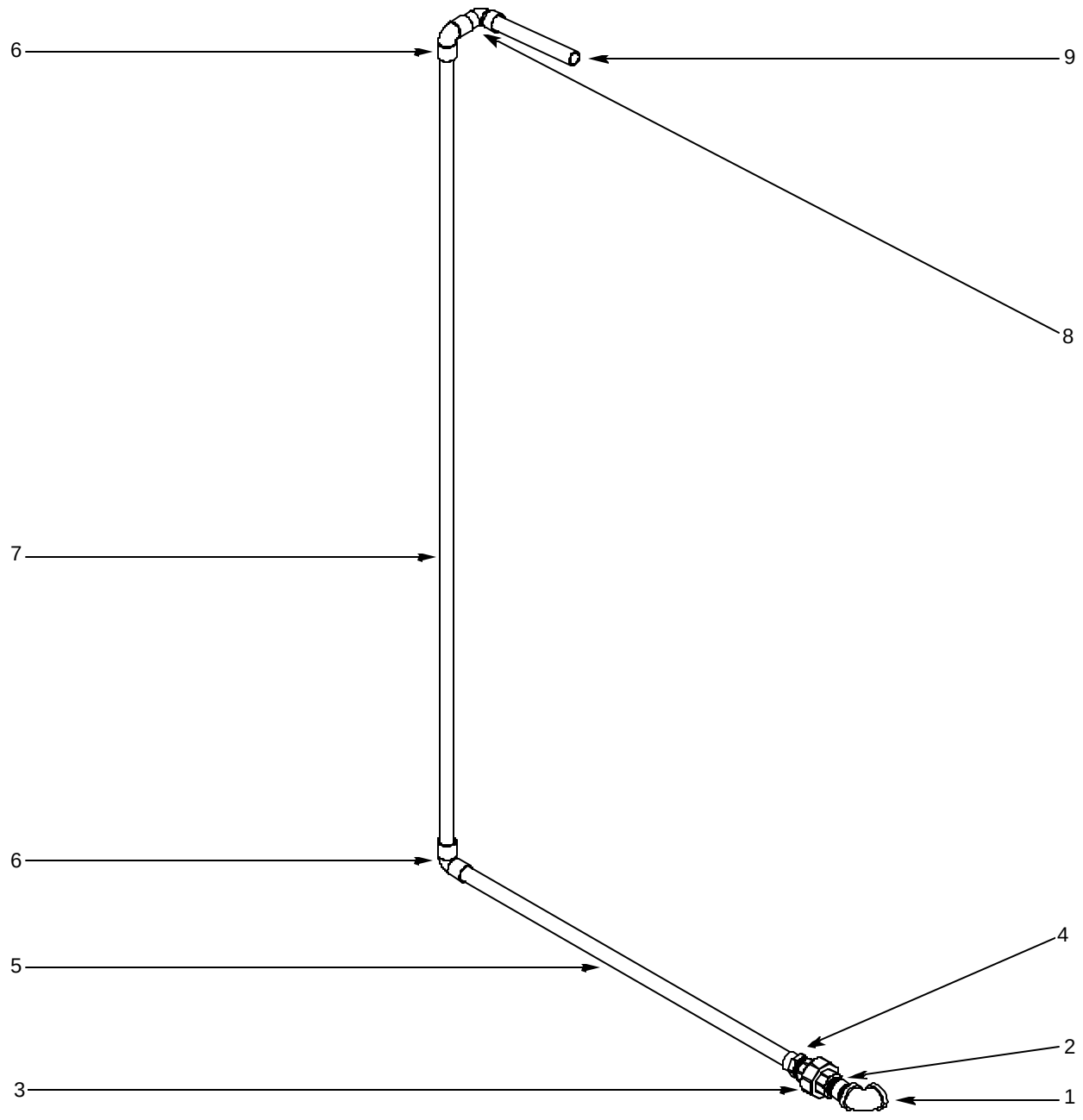


ITEM	QTY	DESCRIPTION	Mfg. No.
1	------	Y-Strainer, 3/4” NPT, Brass	4730-717-02-06
2	------	Adapter, 3/4” Male	4730-401-11-01
3	------	Tube, Copper, 3/4” x 3-7/16” Long	5700-011-72-70
4	------	Tee, Copper, 3/4” x 3/4” x 1/2”	4730-411-03-01
5	------	Arrestor, 1/2” NPT, Water Hammer	6685-100-05-00
6	------	Adapter, 1/2” NPT x Male	4730-401-07-01
7	------	Regulator, Pressure, 3/4” NPT, Brass	6685-011-58-22
8	------	Nipple, 3/4” NPT x 2” Long, Brass	4730-207-46-00
9	------	Elbow, Brass, 90 Degree, 3/4”	4730-206-13-00
10	------	Nipple, 3/4”, Brass, Close	4730-207-34-00
11	------	Coupling, 3/4” FNPT x 3/4” FNPT, Brass	4730-011-87-95

Plumbing without Water Hammer Arrestor

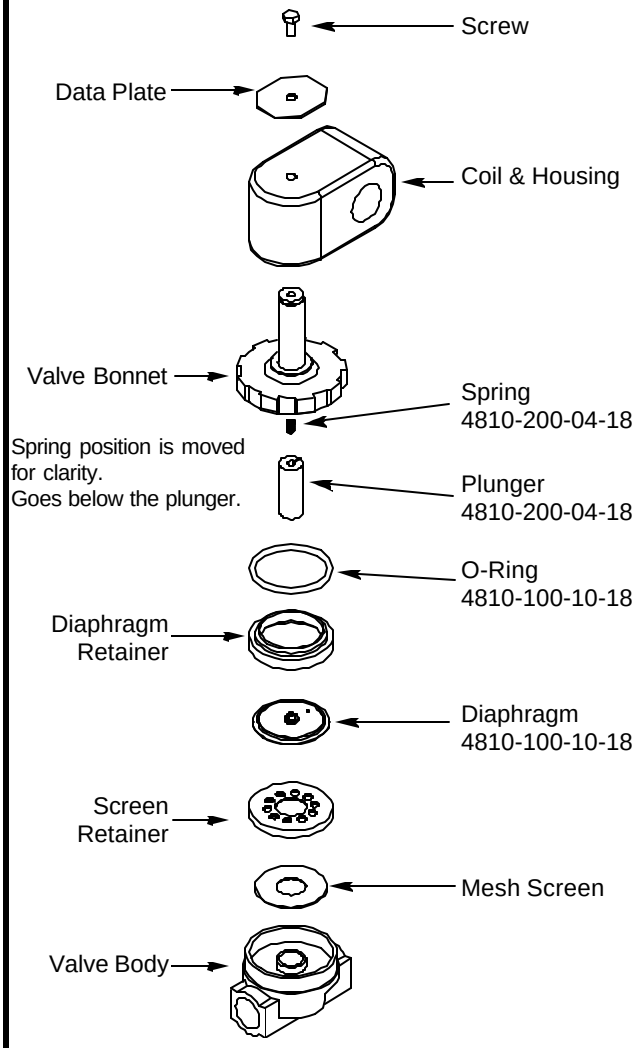


EXTERNAL ELECTRIC BOOSTER OPTION OUTLET PLUMBING

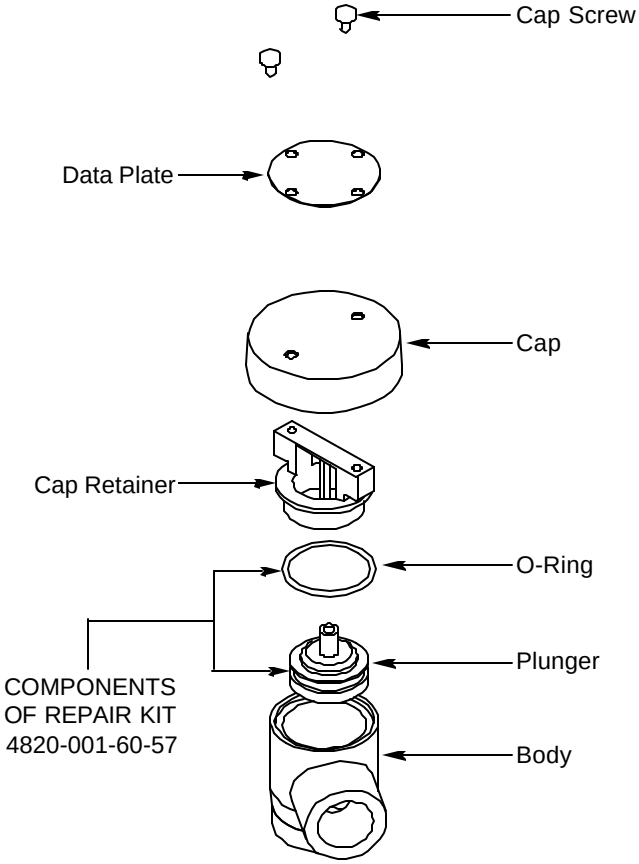


ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Elbow, Brass, 90 Degree, 3/4”	4730-206-13-00
2	1	Nipple, 3/4” NPT x 2” Long, Brass	4730-207-46-00
3	1	Union, 3/4” NPT, Brass	4730-212-05-00
4	1	Adapter, 3/4”, Male	4730-401-11-01
5	1	Tube, Copper, 3/4” x 24” Long	5700-021-76-53
6	2	Elbow, 3/4” Copper to Copper (Female)	4730-406-16-01
7	1	Tube, Copper, 3/4” x 49-1/2” Long	5700-031-87-98
8	1	Elbow, 3/4”, 90 Degree Street, Copper to Copper	4730-406-40-01
9	1	Tube, Copper, 3/4” x 5-7/8” Long	5700-011-87-96

3/4” SOLENOID VALVE & 3/4” NPT VACUUM BREAKER REPAIR PARTS KITS

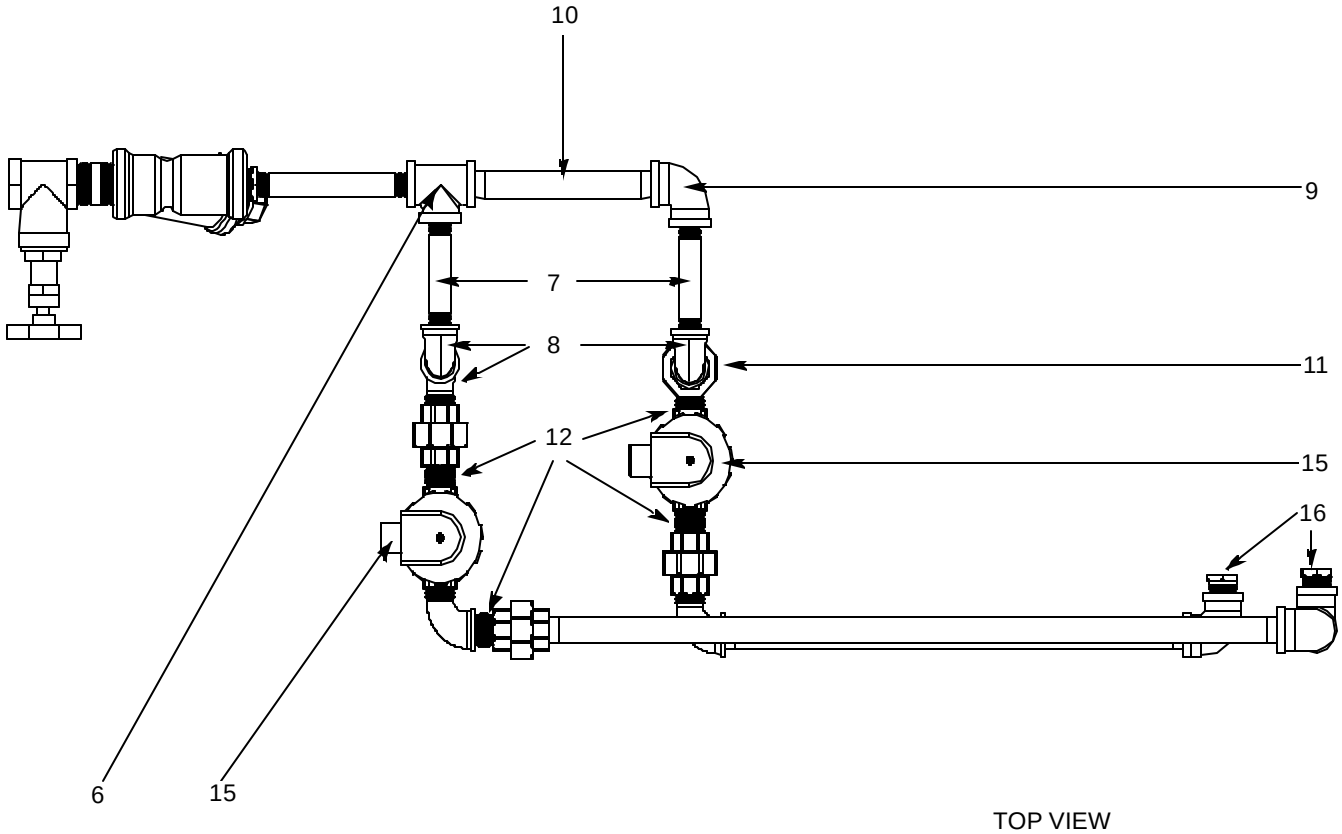


Complete 110 Volt Solenoid Valve Assembly
Mfg. No.: 4810-100-53-00
Coil & Housing only
Mfg. No.: 4810-200-01-18.

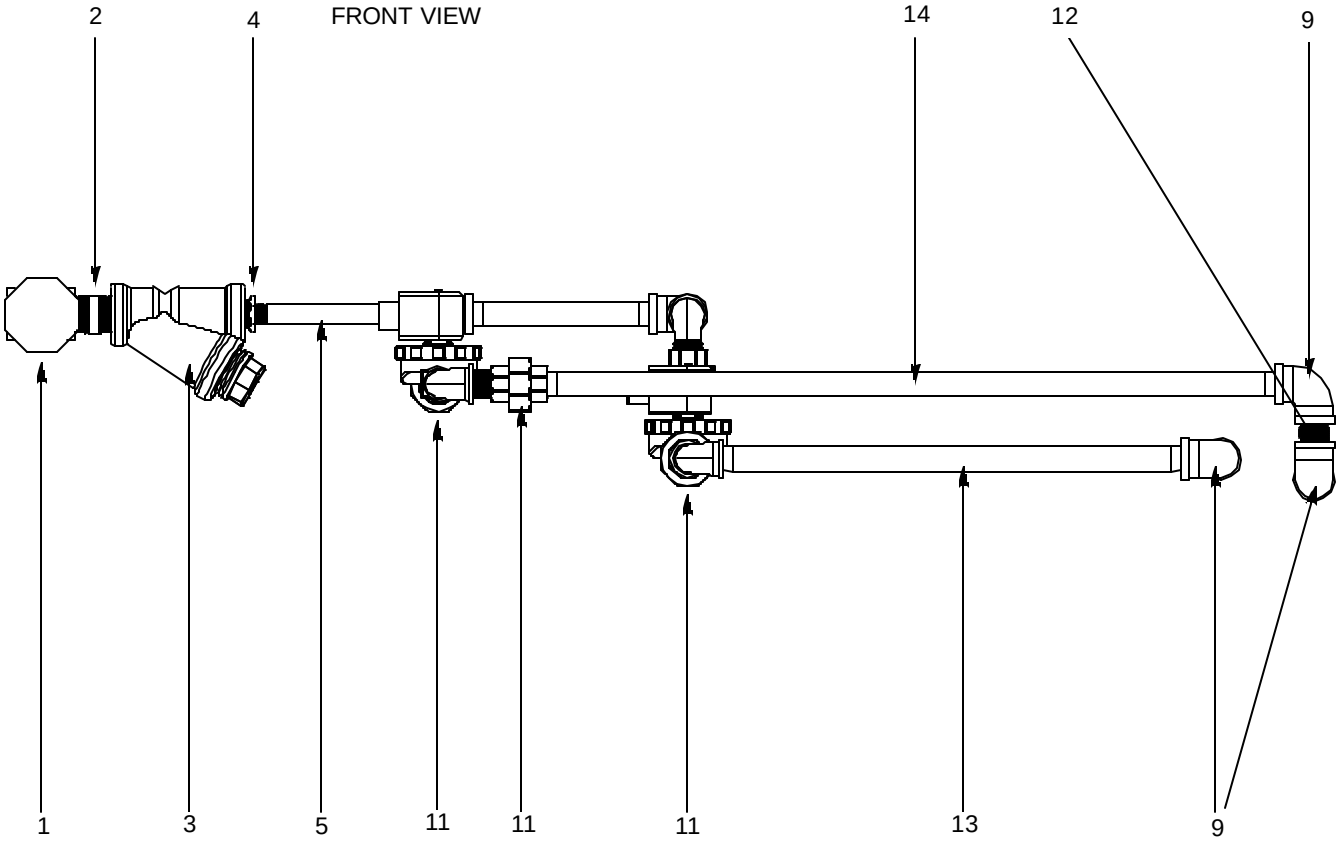


Complete Vacuum Breaker Assembly
Mfg. No.: 4820-300-08-00.

STEAM INLET PLUMBING ASSEMBLY



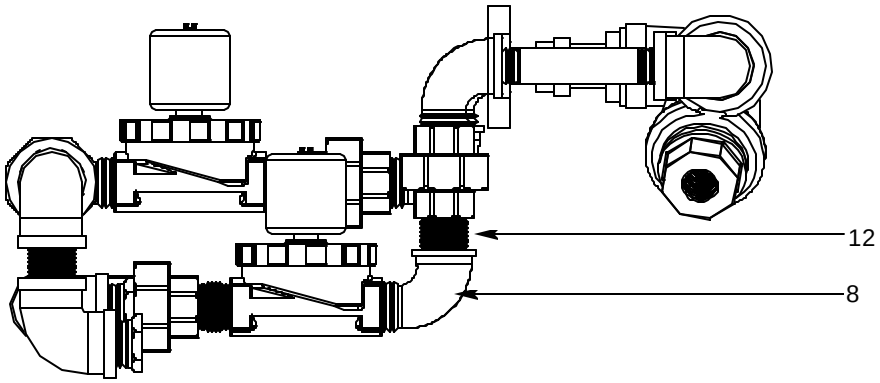
TOP VIEW



FRONT VIEW

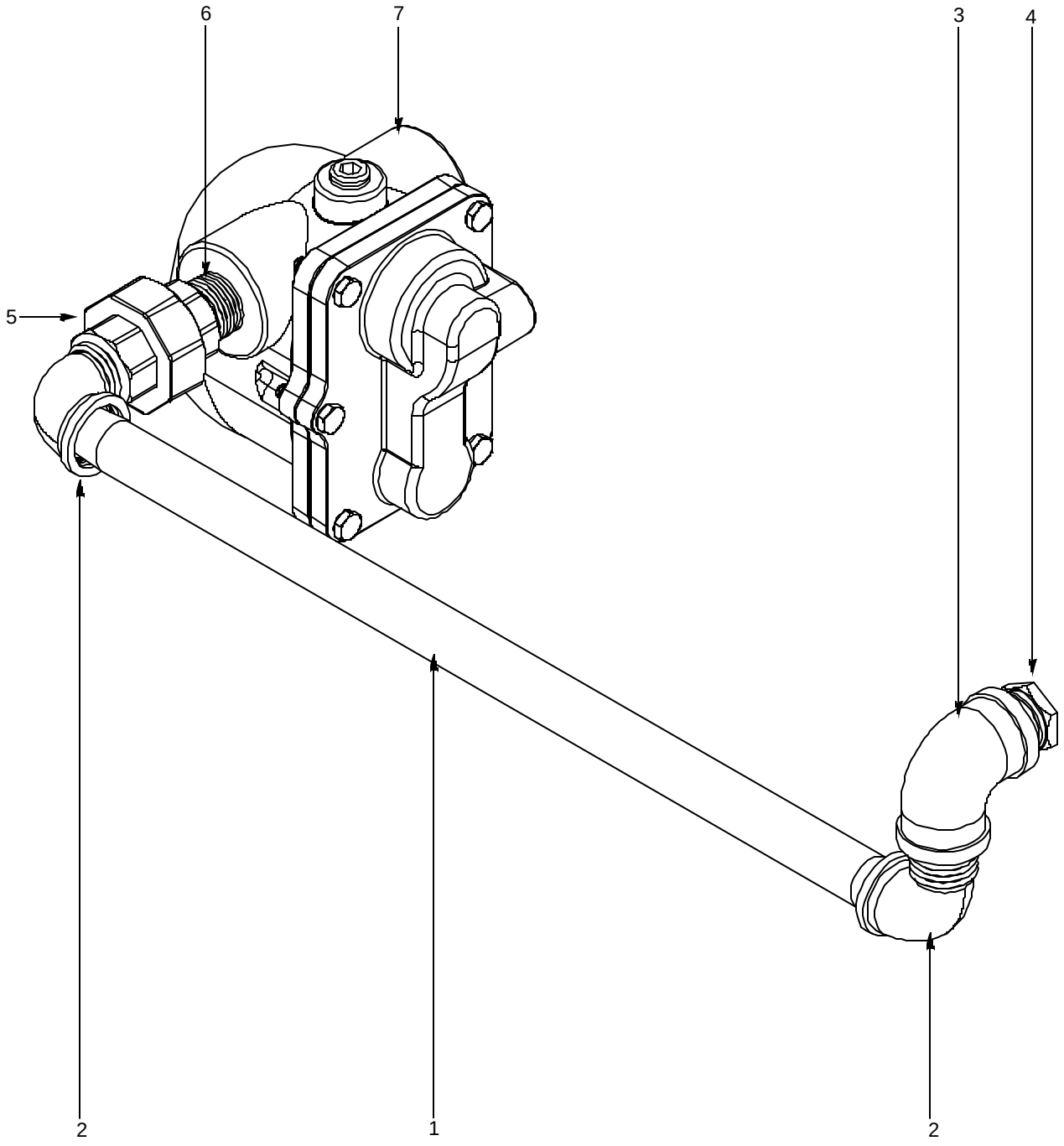
STEAM INLET PLUMBING ASSEMBLY (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Valve, 1” Gate	4820-011-87-30
2	1	Nipple, 1” NPT, Close, Black Iron	4730-907-08-34
3	1	Y-Strainer, 1” NPT, Black Iron	4730-217-02-32
4	1	Reducer, 1” NPT to 3/4” NPT	4730-011-95-66
5	1	Nipple, 3/4” NPT x 6” Long, Black Iron	4730-907-01-34
6	1	Tee, 3/4” x 3/4” x 3/4”, Black Iron	4730-002-74-14
7	2	Nipple, 3/4” NPT x 4” Long, Black Iron	4730-907-02-34
8	6	Elbow, Street, 3/4” NPT, 90 Degree, Black Iron	4730-011-87-37
9	4	Elbow, 3/4” NPT, 90 Degree, Black Iron	4730-906-10-34
10	1	Nipple, 3/4” NPT x 7” Long, Black Iron	5700-002-74-15
11	4	Union, 3/4” NPT, Black Iron	4730-912-01-00
12	5	Nipple, 3/4” NPT, Close, Black Iron	4730-907-01-00
13	1	Nipple, 3/4” NPT x 17” Long, Black Iron	5700-002-74-16
14	1	Nipple, 3/4” NPT x 26.5” Long, Black Iron	5700-002-74-17
15	2	Valve, Solenoid, Steam, 3/4” NPT, 120V	4820-011-87-39
16	2	Reducer, 3/4” NPT to 1/2” NPT	4730-911-02-34



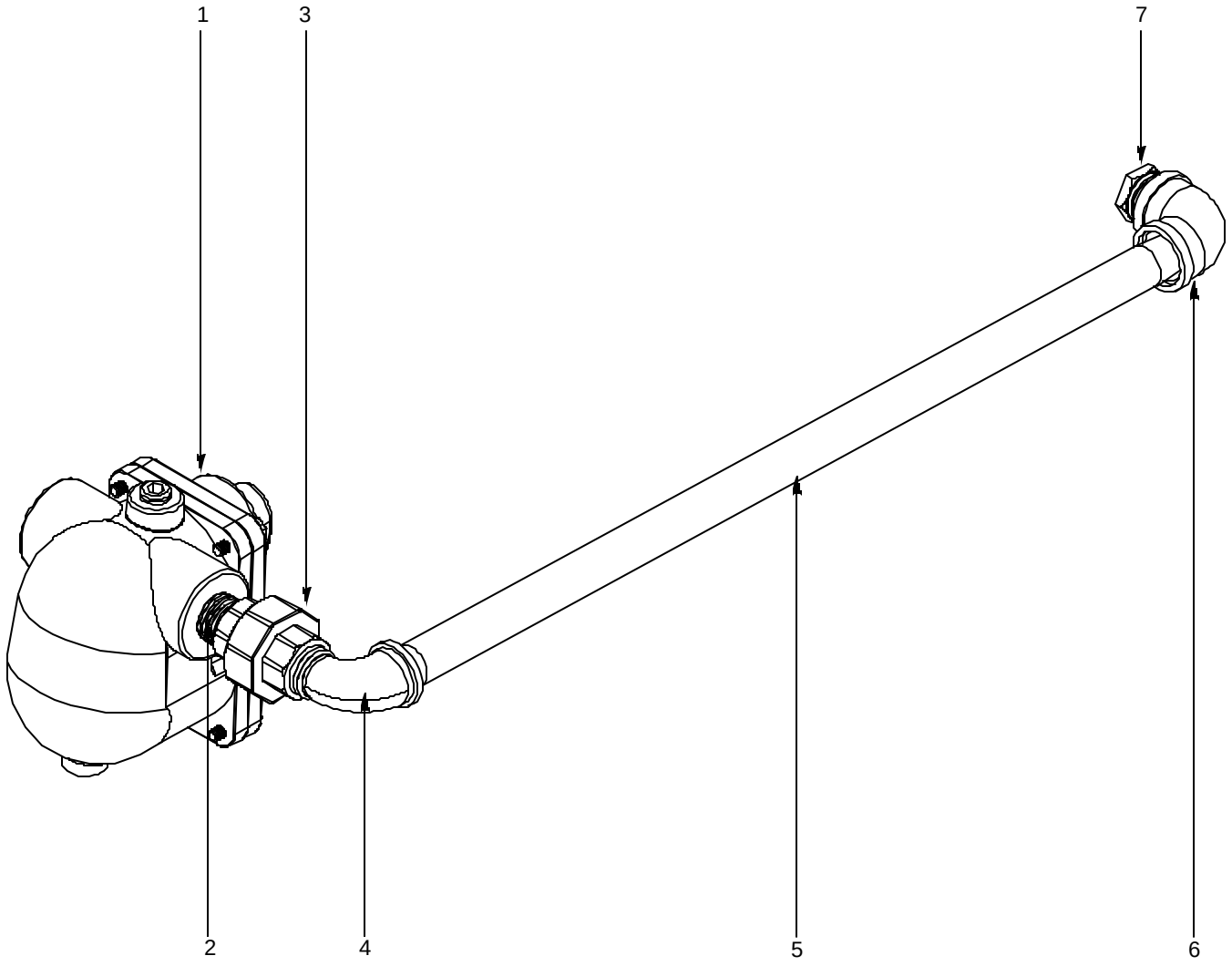
RIGHT SIDE VIEW

STEAM OUTLET PLUMBING ASSEMBLY (BOTTOM)



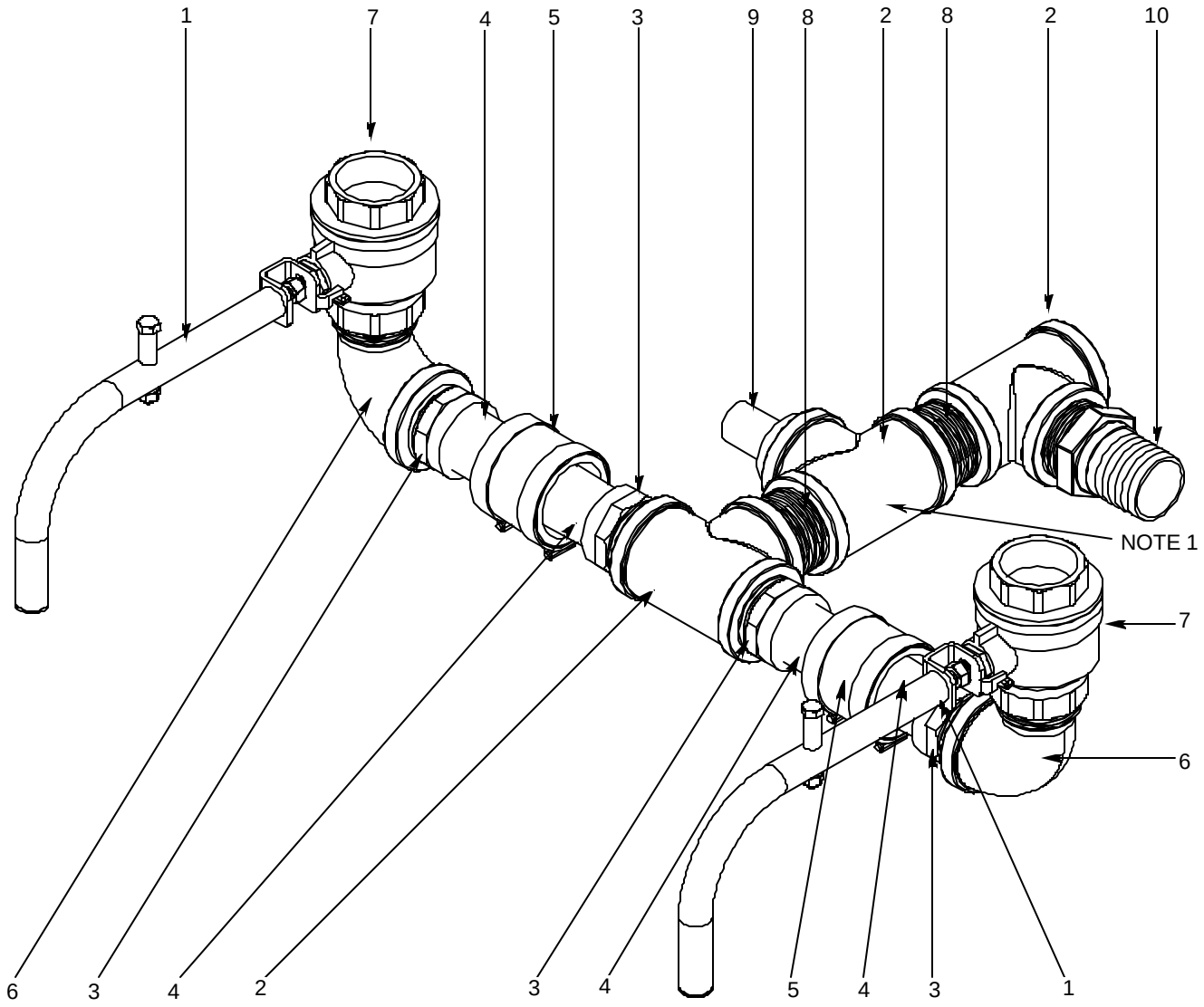
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Nipple, 3/4” NPT x 18” Long, Black Iron	5700-002-74-10
2	2	Elbow, 90 Degree, Street, 3/4” NPT, Black Iron	4730-011-87-37
3	1	Elbow, 90 Degree, 3/4” NPT, Black Iron	4730-906-10-34
4	1	Reducer, 3/4” NPT to 1/2” NPT	4730-911-02-34
5	1	Union, 3/4” NPT, Black Iron	4730-912-01-00
6	1	Nipple, Close, 3/4” NPT	4730-907-01-00
7	1	Steam Trap, 3/4” NPT	6680-500-02-77

STEAM OUTLET PLUMBING ASSEMBLY (TOP)



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Steam Trap	6680-500-02-77
2	1	Nipple, Close, 3/4”, Black Iron	4730-907-01-00
3	1	Union, 3/4” NPT, Black Iron	4730-912-01-00
4	1	Elbow, Street, 90 Degree, Black Iron	4730-011-87-37
5	1	Nipple, 3/4” NPT x 22” Long, Black Iron	5700-002-74-08
6	1	Elbow, 90 Degree, 3/4” FNPT, Black Iron	4730-906-10-34
7	1	Reducer, 3/4” NPT x 1/2” NPT	4730-911-02-34

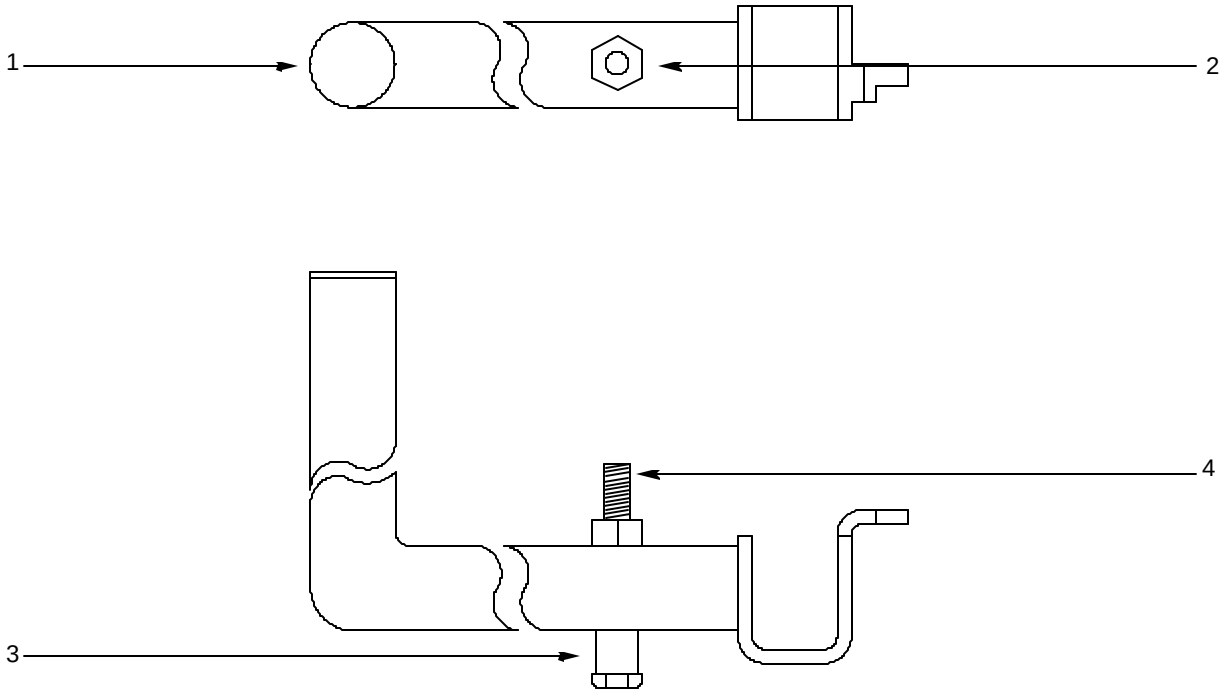
DRAIN PLUMBING ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
1	2	Ball Valve Handle Assembly	5700-021-84-74
2	3	Tee, Brass, 1-1/2” x 1-1/2” x 1-1/2”	4730-011-69-93
3	4	Adapter, 1-1/2”	4730-401-25-01
4	4	Tube, Copper, 1-1/2” OD x 2” Long	5700-011-87-16
5	2	Connector, No-Hub, 1-1/2”	4720-604-06-00
6	2	Elbow, 1-1/2”, Street, Brass, 90 Degree	4730-206-32-00
7	2	Valve, Ball, 1-1/2” NPT	4820-111-71-46
8	2	Nipple, 1-1/2” NPT, Brass, Close	4730-207-40-00
9	1	Rinse Nipple Weldment	5700-021-84-61
10	1	Fitting, Barbed, 1-1/2” NPT x 1-1/2”	4730-011-69-92

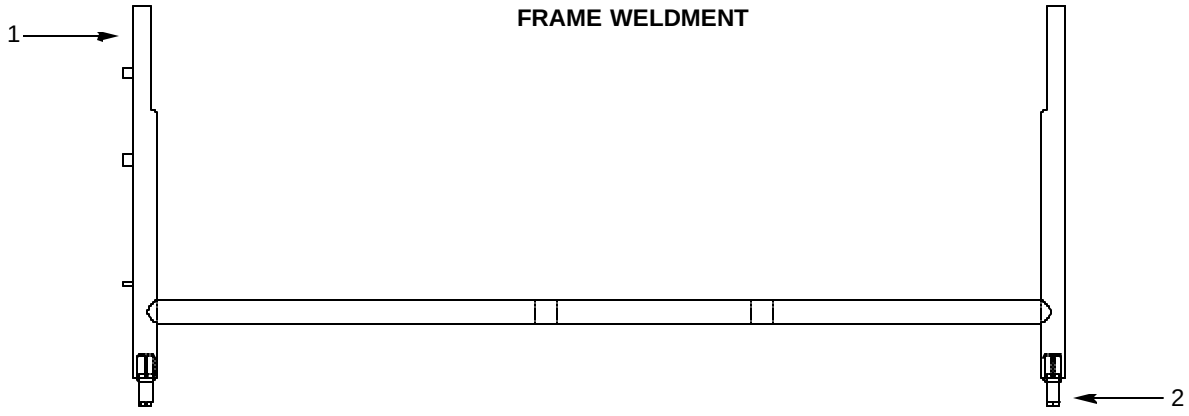
NOTE 1: Component is shown for installation in a Right-to-Left model; component is rotated 180 degrees for Left-to-Right units.

DRAIN HANDLE WELDMENT ASSEMBLY/FRAME WELDMENT



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Ball Valve Handle Weldment	5700-021-70-42
2	1	Locknut, 1/4”-20 with Nylon Insert	5310-374-01-00
3	1	Spacer	5700-000-01-53
4	1	Screw, 1/4”-20 x 2” Long Hex Head	5306-011-84-72

FRAME WELDMENT



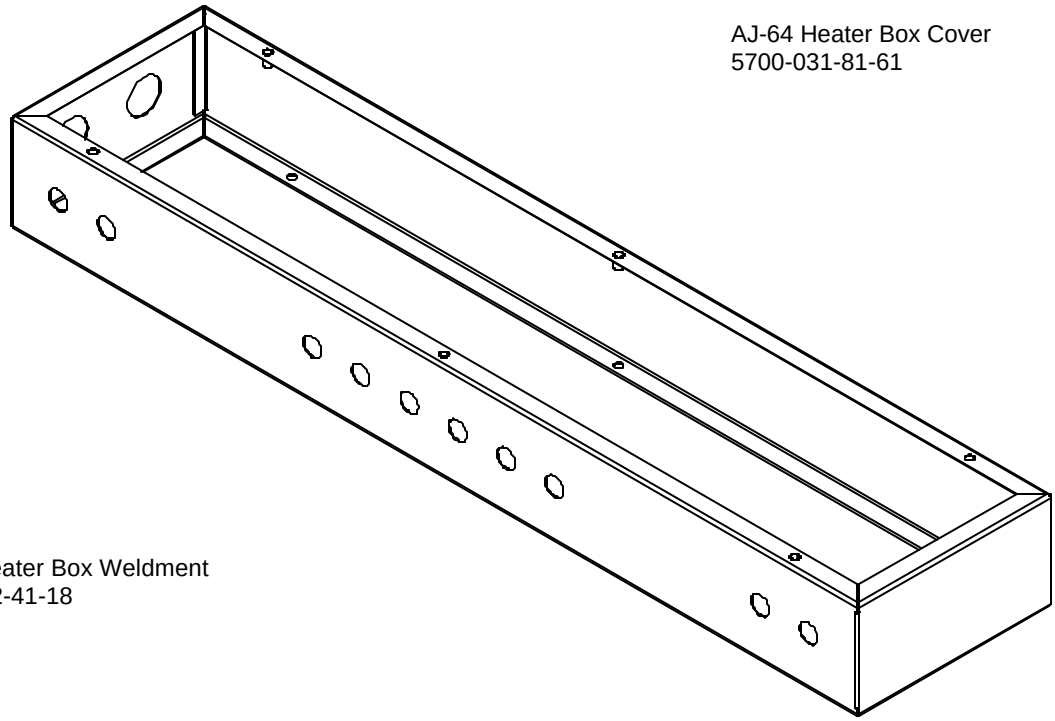
Item 1:

Model	Left to Right P/N	Right to Left P/N
AJ-64CE/AJ-64CS	5700-002-73-00	5700-0002-73-00

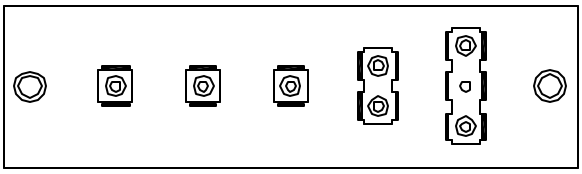
Item 2:
Bullet Feet (4 per model) - order using part number 5340-011-71-74.
Flanged Bullet Feet (4 per model) - order using part number 5340-002-15-47.

HEATER BOX/THERMOSTATS

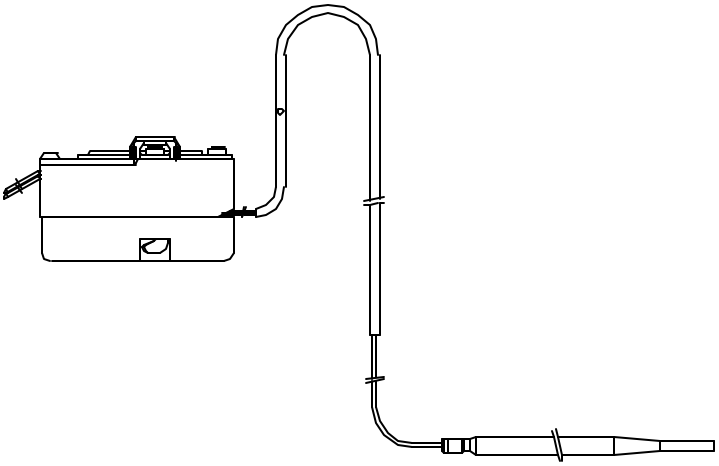
AJ-64 Heater Box Cover
5700-031-81-61

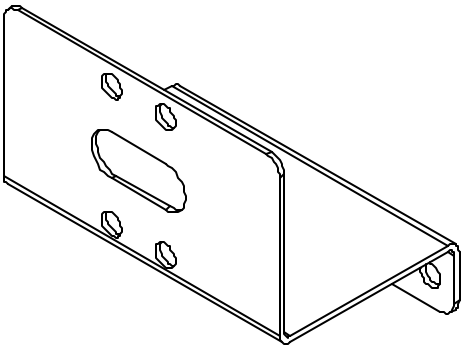


AJ-64 Heater Box Weldment
5700-002-41-18



Terminal Board
5940-021-70-70





Thermostat Bracket
5700-011-73-72

Thermostat, High Limit, 104 Degrees C
5930-121-71-36

Thermostat, Wash Regulating, 78 Degrees C
5930-121-67-72

Decal, High Limit Thermostat
9905-011-84-31

Decal, Wash Regulating Thermostat
9905-011-84-31

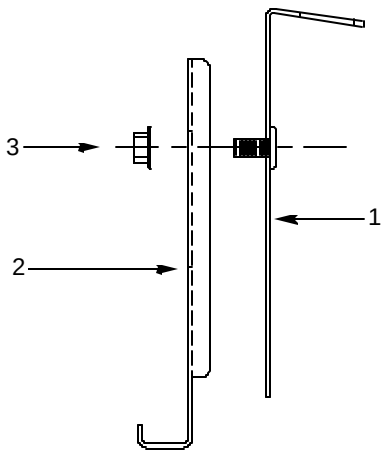
MOTORS/MOTOR SUPPORT BRACKET ASSEMBLY

The chart below details the part numbers for the various models covered in this manual. Refer to the machine data plate for voltage and phase information.

Model	Volts	Phase	Power Rinse Motor P/N	Wash Motor P/N	Drive Motor P/N
AJ-64CE/CS	208	1	6105-021-70-57	6105-021-70-57	6105-121-70-53
AJ-64CE/CS	230	1	6105-021-70-57	6105-021-70-57	6105-121-70-53
AJ-64CE/CS	208	3	6105-121-70-58	6105-121-70-58	6105-121-70-54
AJ-64CE/CS	230	3	6105-121-70-58	6105-121-70-58	6105-121-70-54
AJ-64CE/CS	460	3	6105-121-70-58	6105-121-70-58	6105-121-70-54

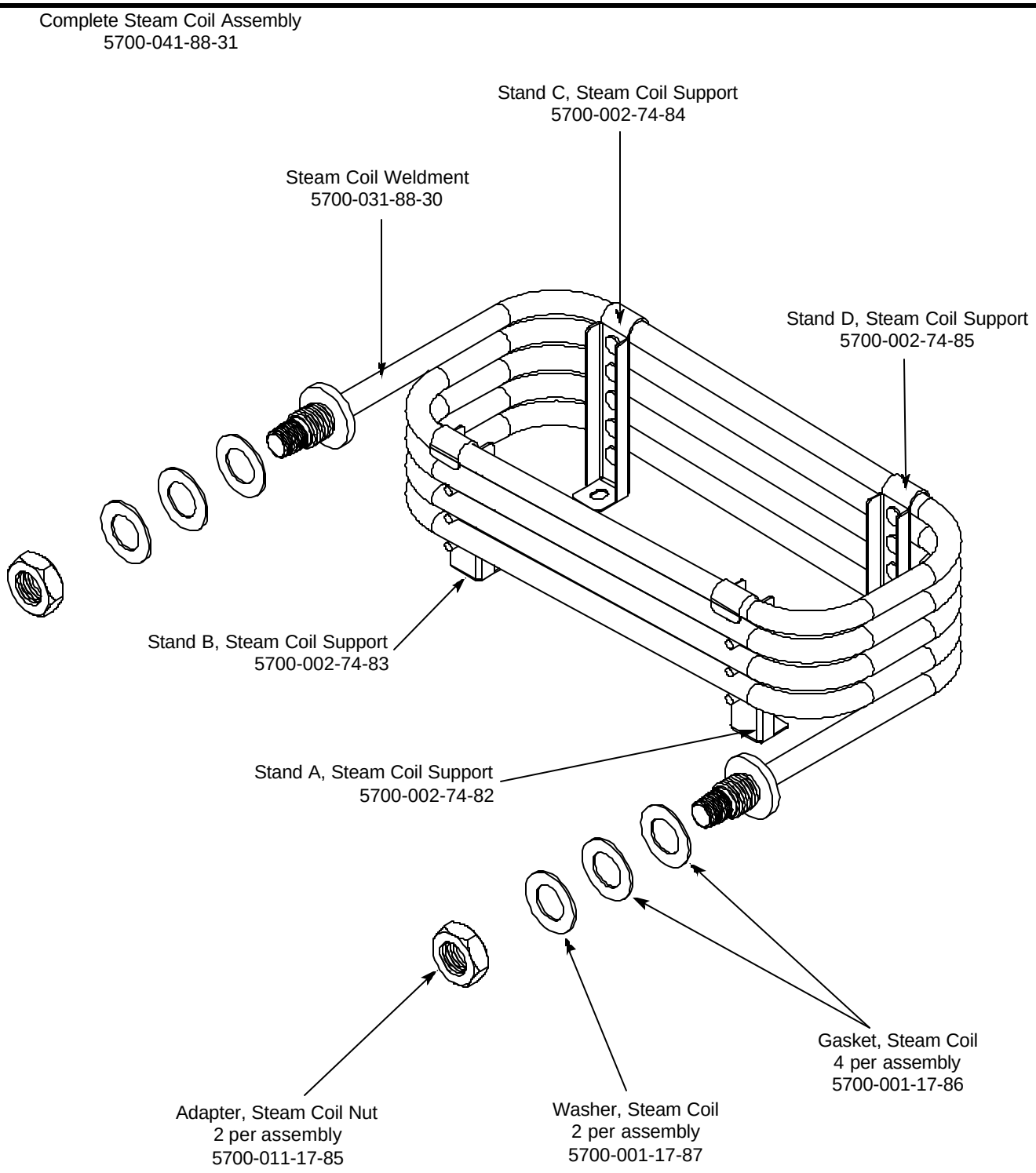
The clamp used to secure the pump motor to the bracket may be ordered using part number 4730-002-32-15.

The locknuts (1/4”-20 Hex with Nylon Insert) used to secure the assembly to the tub bottom may be ordered using part number 5310-374-01-00.

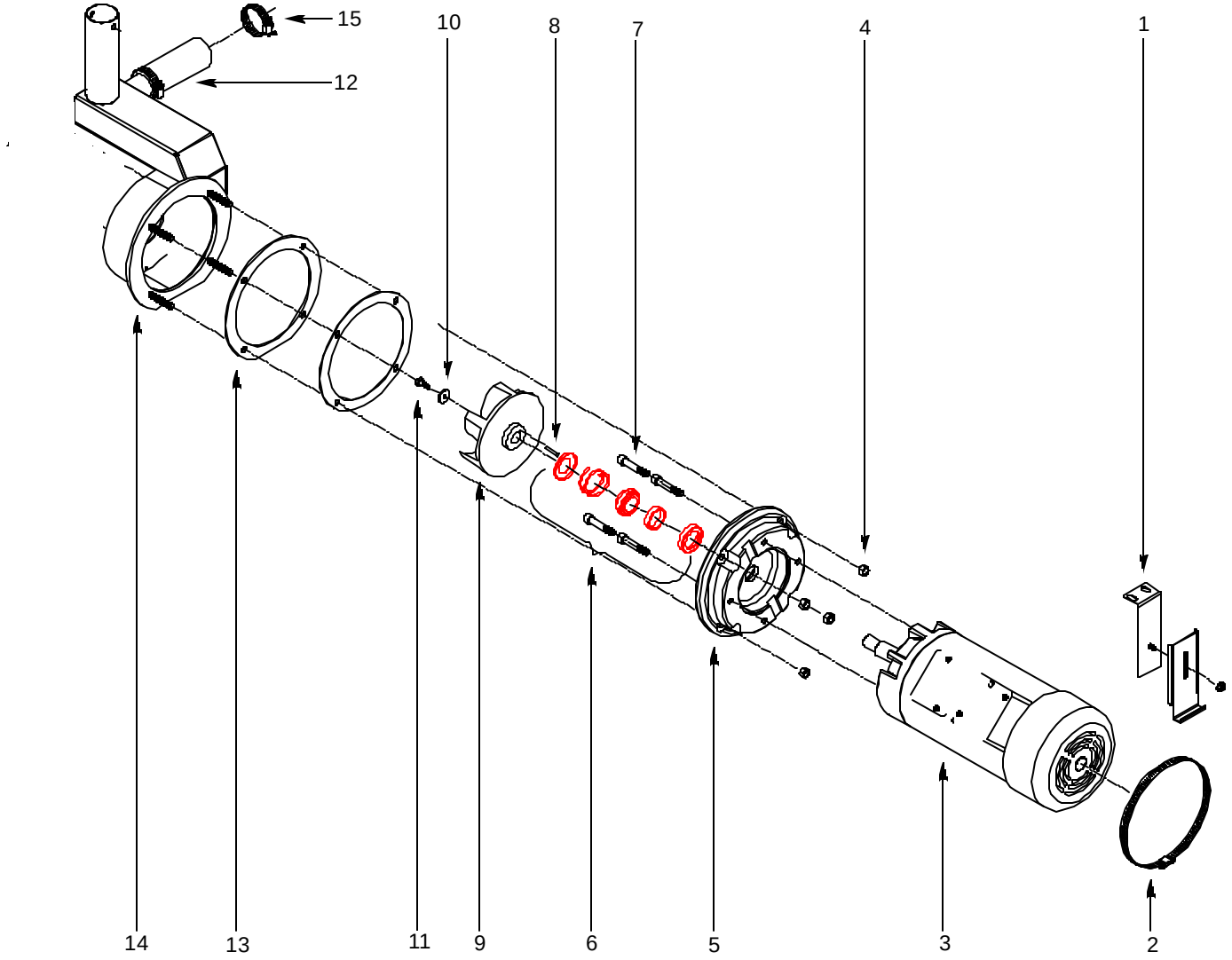


ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Upper Pump Support Bracket Weldment	5700-021-73-68
2	1	Lower Pump Support Bracket Weldment	5700-021-73-71
3	1	Nut, Serrated, 1/4”-20, Hex	5310-011-66-49
		Entire Assembly	5700-021-73-42

STEAM COIL ASSEMBLY

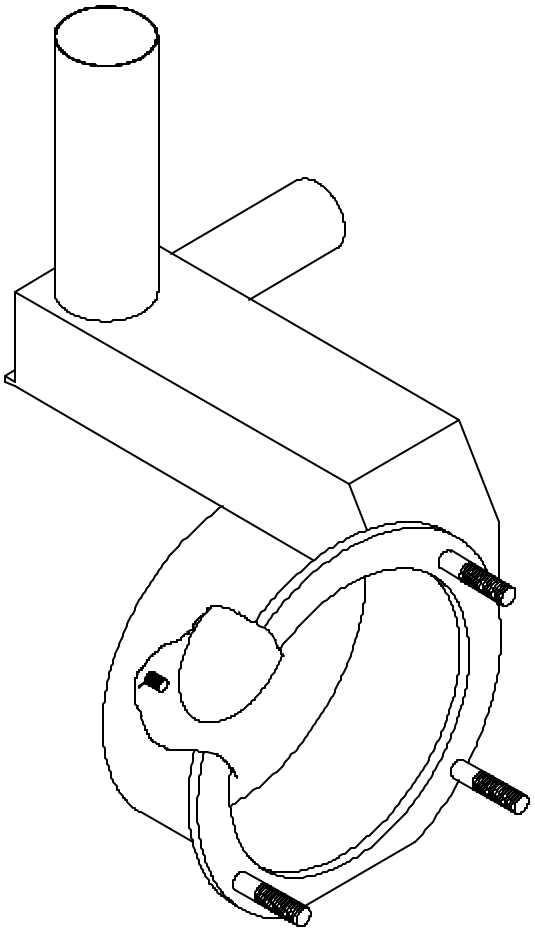


WASH PUMP ASSEMBLY

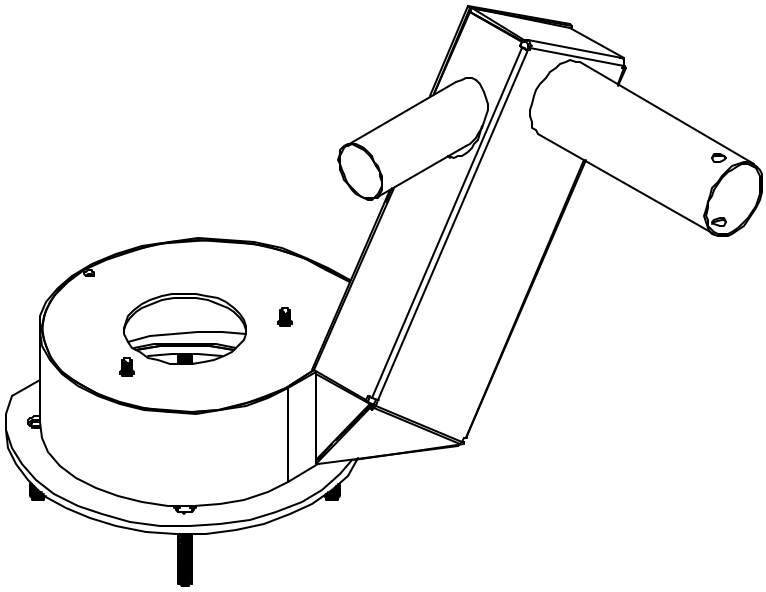


ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	See Page Entitled “Pump Support Bracket Assembly”	N/A
2	1	Hose Clamp, 4-1/8” - 7”, HSS104	4730-002-32-15
3	1	See Page Entitled “Motors”	N/A
4	4	Nut, Hex, 3/8”-16, S/S	5310-276-01-00
5	1	Pump Plate	5700-021-71-83
6	1	Pump Seal	5330-011-71-98
7	4	Bolt, 3/8”-16 x 2” Long Hex Head	5305-011-74-98
8	1	Key, 3/16” x 1” Long	5700-011-89-17
9	1	Impeller	5700-031-67-45
10	1	Impeller Washer	5700-011-71-95
11	1	Bolt, 1/4”-20 x 3/4” Long	5305-274-04-00
12	1	Pump Manifold Hose	5700-002-18-17
13	1	See Page Entitled “Assorted Gaskets”	N/A
14	1	See Page Entitled “Pump Weldments”	N/A
15	2	Hose Clamp, 1-1/16” - 2”	4730-719-18-00

PUMP WELDMENTS



Power Rinse Pump Weldment
5700-041-68-88



Wash Pump Weldment
5700-031-81-47

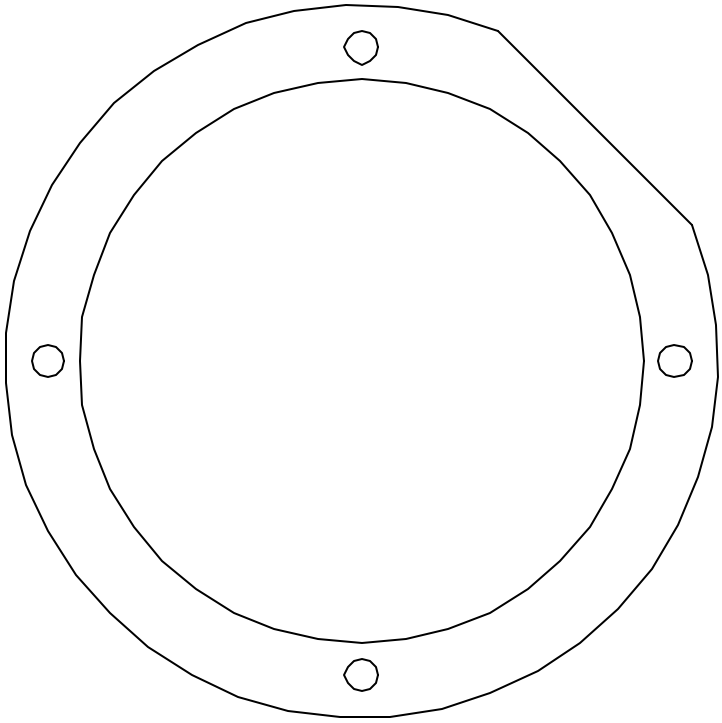
The gasket used to seal the weldment to the tub can be found on the page entitled “Assorted Gaskets”.

The pump weldment is secured to the pump plate (through the actual tub wall) using the following fasteners:

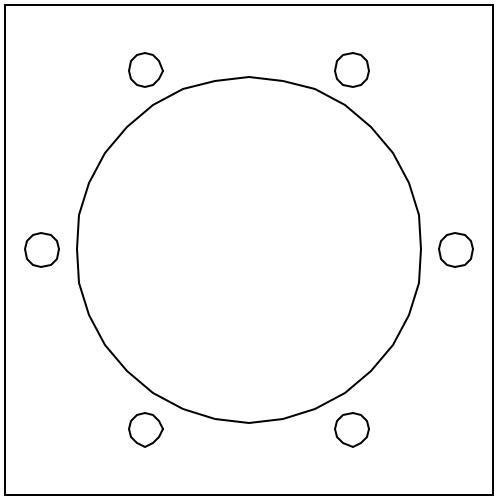
Nut, Hex, 3/8”-16	P/N 5310-276-01-00
Washer, Flat, 3/8”	P/N 5311-176-01-00
Lockwasher, Split, 3/8”	P/N 5311-276-01-00

The pump weldment, gasket, and associated fasteners are not available as one assembly and must be ordered separately.

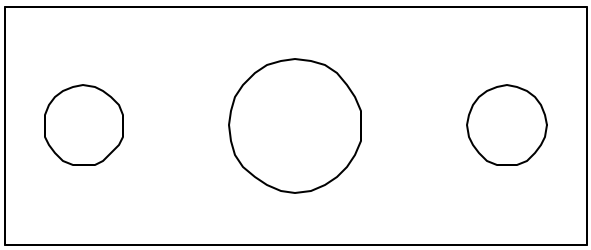
ASSORTED GASKETS



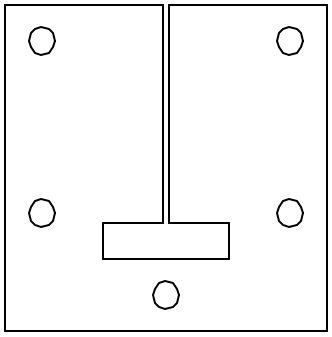
Motor Mounting Gasket
5330-011-71-62



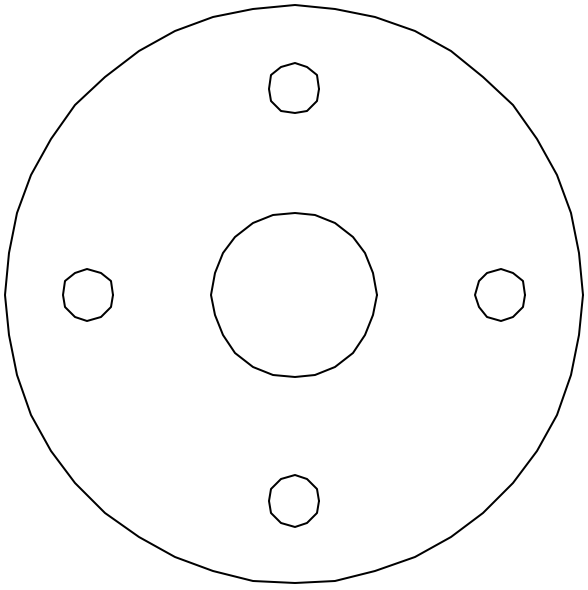
Heater Gasket
5330-200-02-70



Rinse Assembly Vellumoid Gasket
5330-111-42-81



Pawl Bar Gutter Gasket
5330-011-68-55

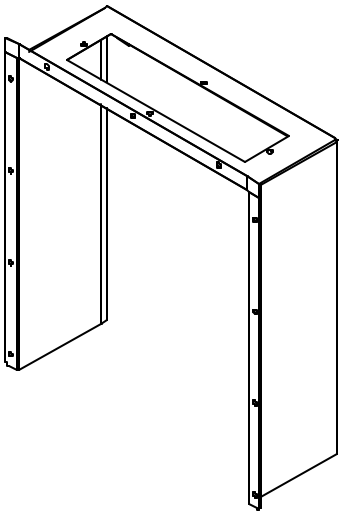


Rinse Drain Plate Gasket
5330-011-72-27

HEATERS/HOOD WELDMENTS/TUB WELDMENTS/WASH MANIFOLD

Order your wash heaters using the table below:

Model	Volts	Phase	KW	Part Number
AJ-64CE	208	1	10	4540-121-76-91
AJ-64CE	208	1	15	4540-121-68-45
AJ-64CE	230	1	10	4540-121-76-92
AJ-64CE	230	1	15	4540-121-68-46
AJ-64CE	208	3	10	4540-121-91-76
AJ-64CE	208	3	15	4540-121-68-45
AJ-64CE	230	3	10	4540-121-76-92
AJ-64CE	230	3	15	4540-121-68-46
AJ-64CE	460	3	10	4540-121-76-93

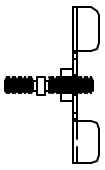


Vent Cowl Weldment
5700-041-86-94

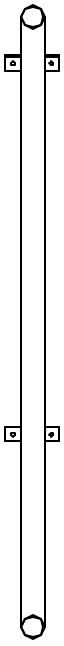
Vent Cowl Cover Weldment
5700-011-74-67

Top Gasket
5330-031-83-47

Side Gasket
5330-031-83-48

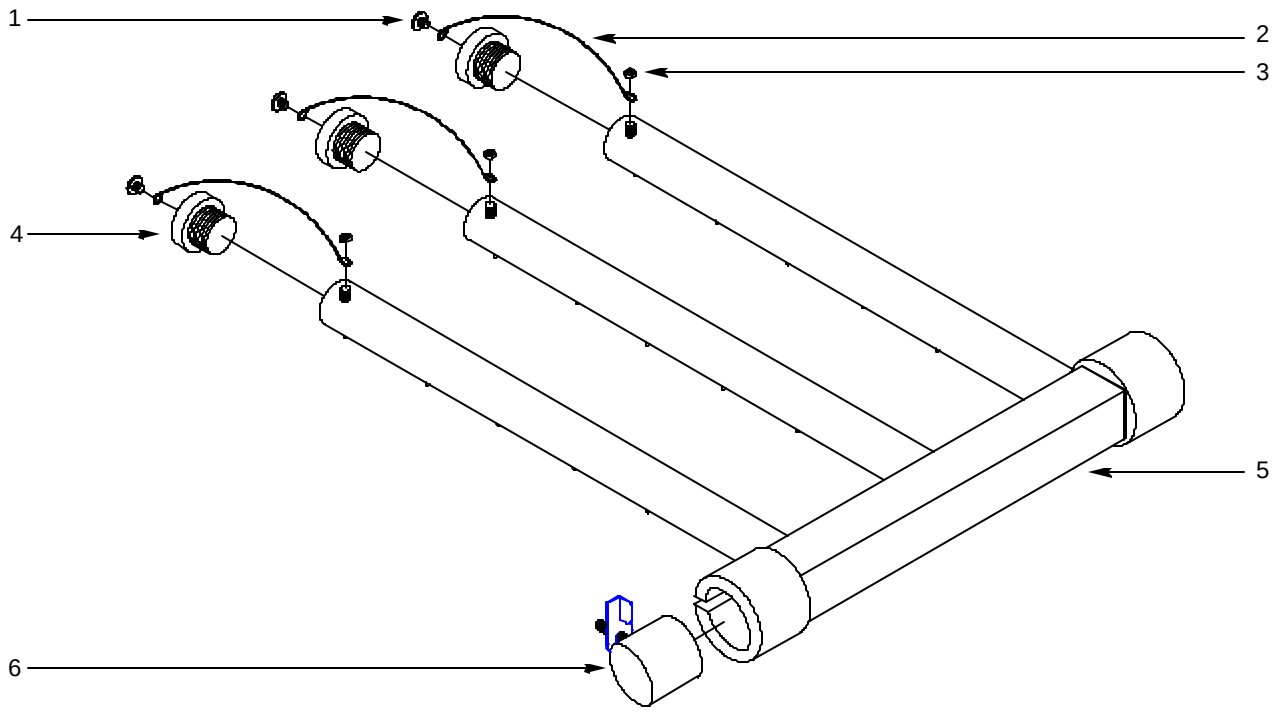


Shoulder Bolt Wingnut
Weldment
5700-002-46-02



Wash Manifold Weldment
5700-031-77-24

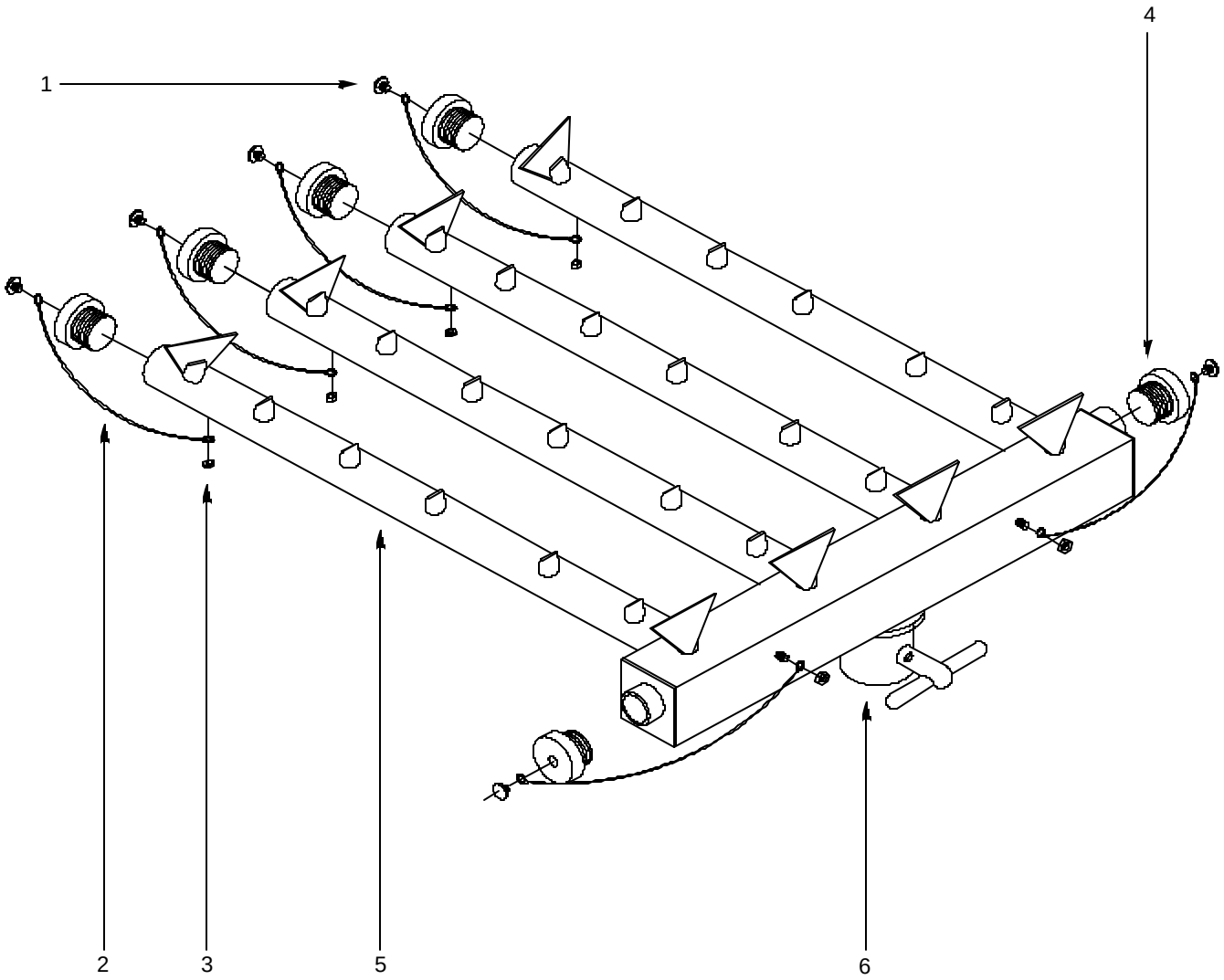
UPPER WASH ARM ASSEMBLY



SERVICE NOTE: When replacing the 10-32 screws in the End Caps, it is recommended that a thread locking fluid be used to ensure that the screws do not back out during normal operation.

ITEM	QTY	DESCRIPTION	Mfg. No.
1	3	Screw, 10-32 x 3/8” Long	5305-173-12-00
2	3	Lanyard	5340-011-72-46
3	3	Locknut, 10-24 with Nylon Insert	5310-373-01-00
4	3	End Cap	5700-011-67-11
5	1	Upper Wash Arm Manifold Weldment	5700-031-67-34
6	1	Cap, Wash Tube	5700-021-69-68
	1	Entire Assembly	5700-031-74-99

LOWER WASH ARM ASSEMBLY

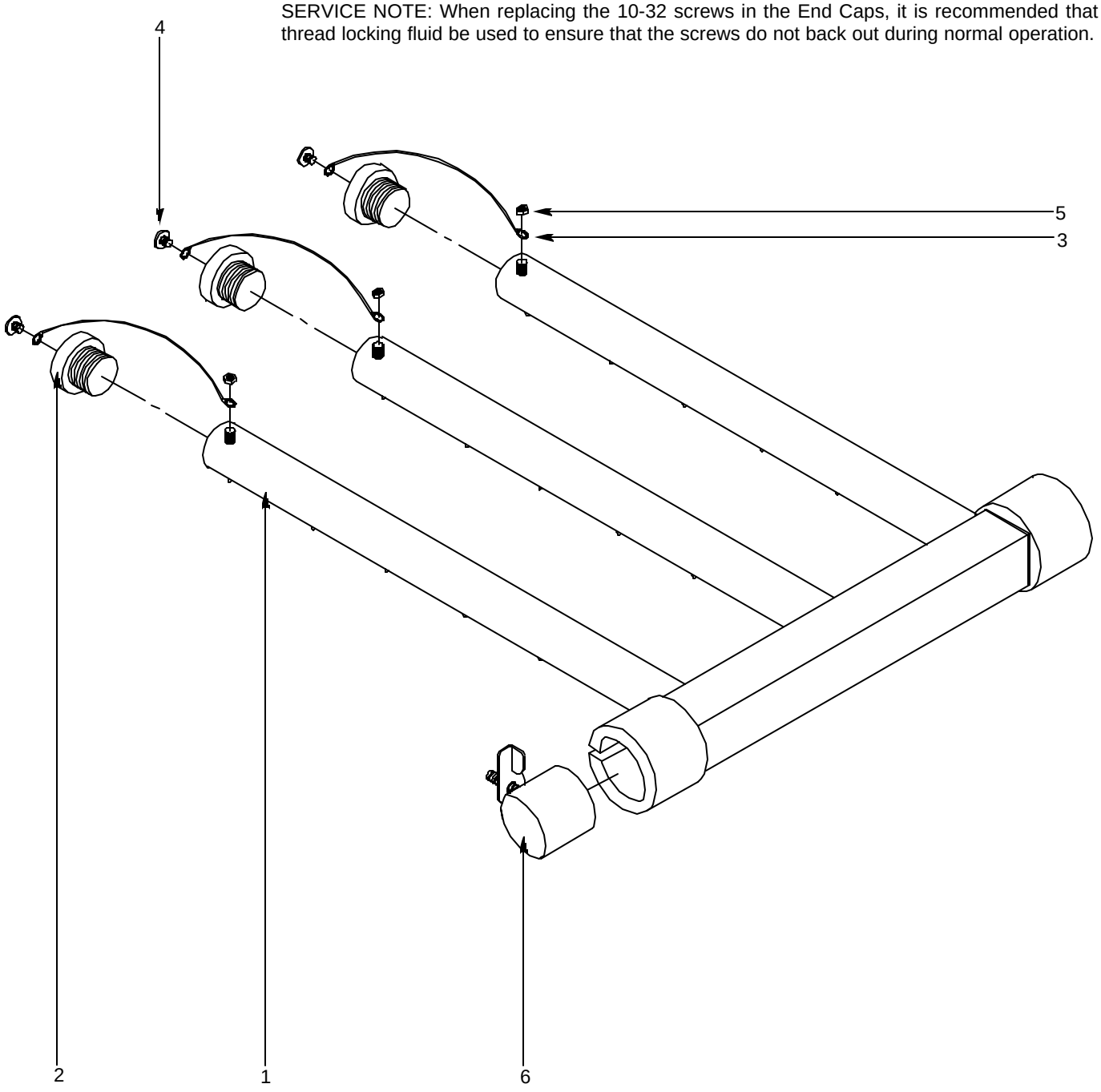


SERVICE NOTE: When replacing the 10-32 screws in the End Caps, it is recommended that a thread locking fluid be used to ensure that the screws do not back out during normal operation.

ITEM	QTY	DESCRIPTION	Mfg. No.
1	6	Screw, 10-32 x 3/8” Long	5305-173-12-00
2	6	Lanyard	5340-011-72-46
3	6	Locknut, 10-24 with Nylon Insert	5310-373-01-00
4	6	End Cap	5700-011-67-11
5	1	Lower Wash Arm Manifold Weldment	5700-031-67-29
6	1	Manifold Quick-Release Key	5700-011-94-45
		Entire Assembly	5700-031-74-66

UPPER POWER RINSE ARM ASSEMBLY

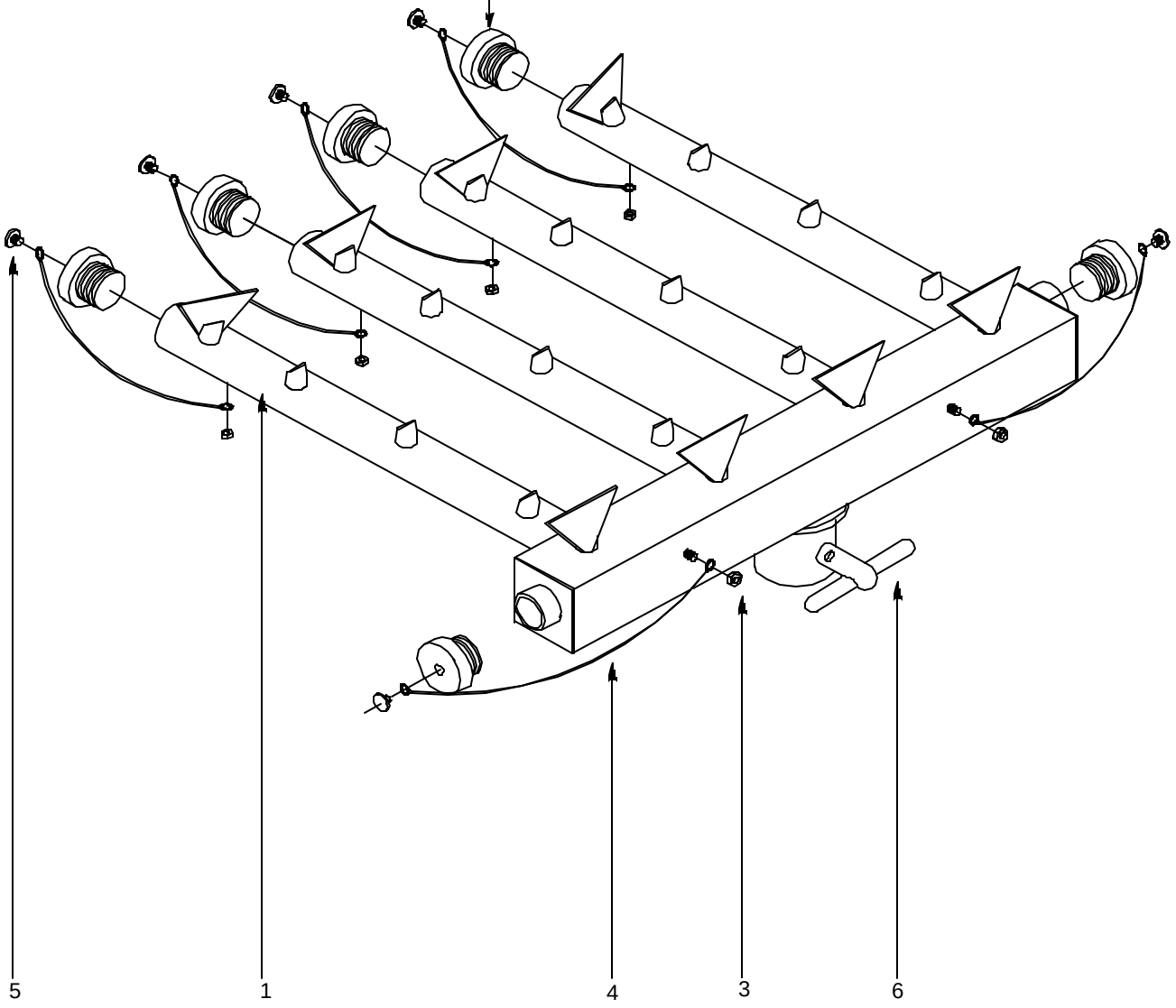
SERVICE NOTE: When replacing the 10-32 screws in the End Caps, it is recommended that a thread locking fluid be used to ensure that the screws do not back out during normal operation.



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Upper Wash Manifold	5700-031-91-48
2	3	End Cap	5700-011-87-11
3	3	Lanyard	5340-011-72-46
4	3	Screw, 10-32 x 3/8” Long	5305-173-12-00
5	3	Locknut, 10-24 with Nylon Insert	5310-373-01-00
6	1	Cap, Wash Tube	5700-021069-68
		Entire Assembly	5700-031-91-46

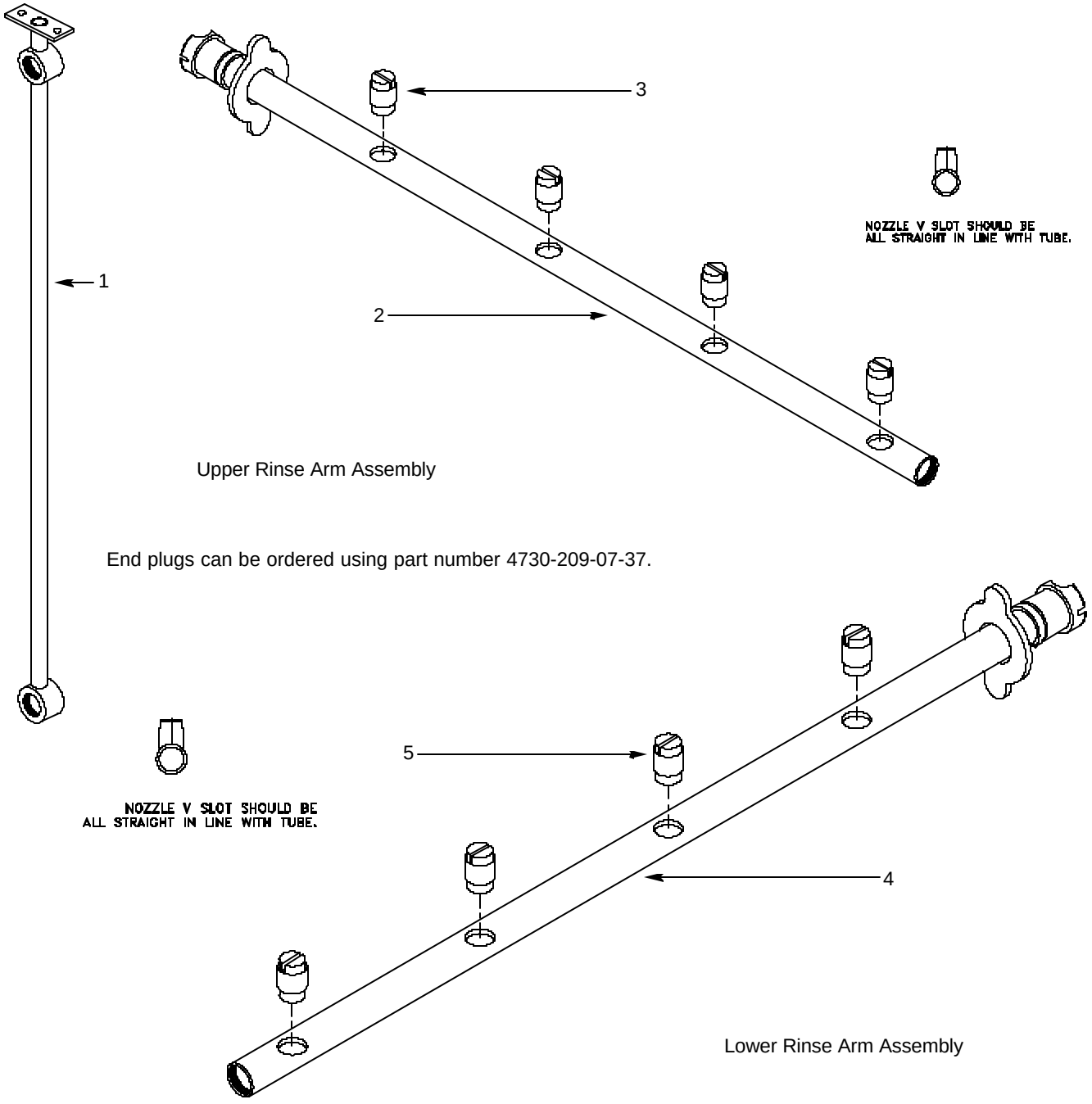
LOWER POWER RINSE ARM ASSEMBLY

SERVICE NOTE: When replacing the 10-32 screws in the End Caps, it is recommended that a thread locking fluid be used to ensure that the screws do not back out during normal operation.



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Lower Wash Arm Manifold	5700-031-91-49
2	6	End Cap	5700-011-67-11
3	6	Locknut, 10-24 with Nylon Insert	5310-373-01-00
4	6	Lanyard	5340-011-72-46
5	6	Screw, 10-32 x 3/8” Long	5305-173-12-00
6	1	Manifold Quick Release Key	5700-011-94-45
		Entire Assembly	5700-031-91-47

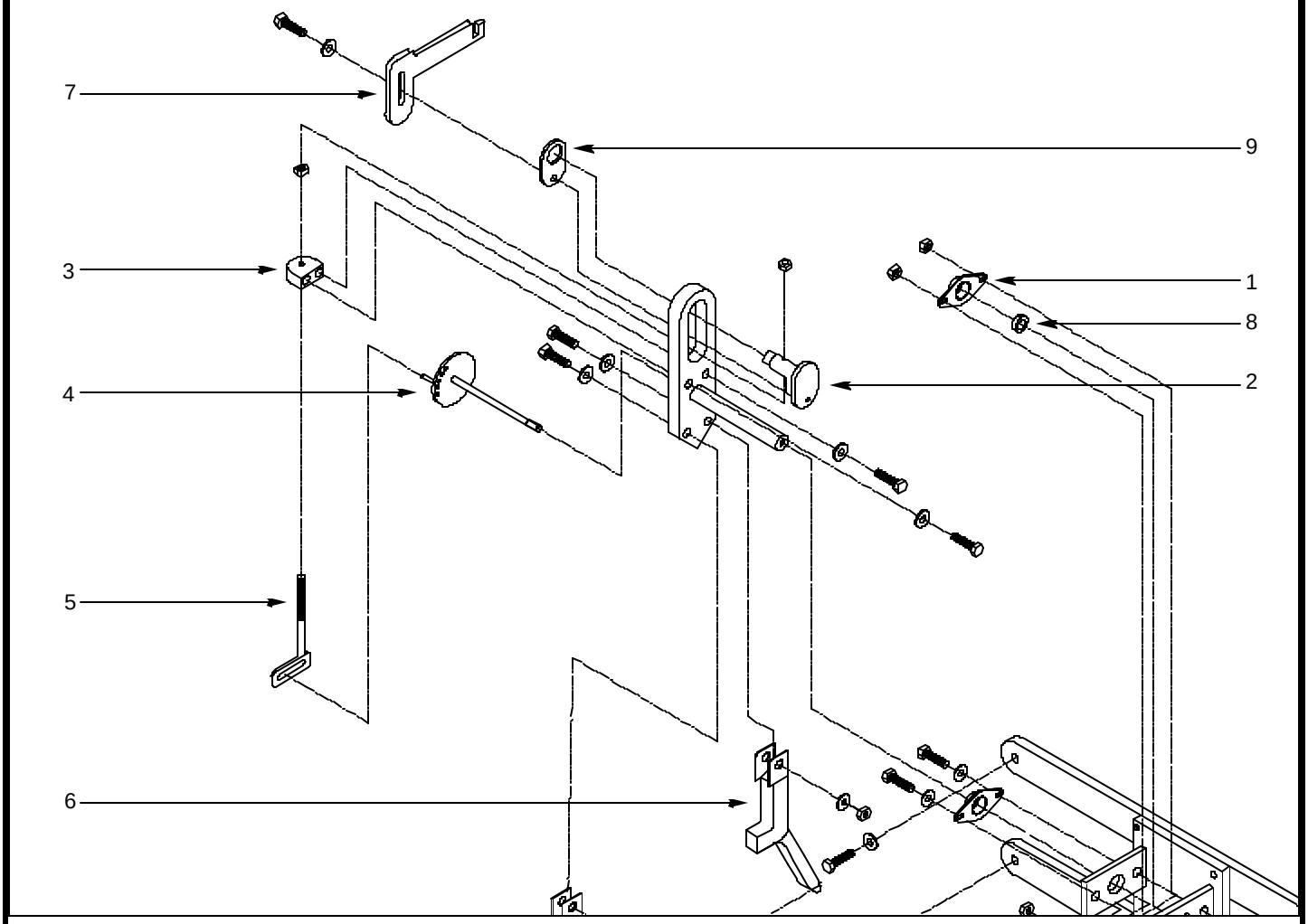
FINAL RINSE ASSEMBLY



*** - Indicates an item not shown**

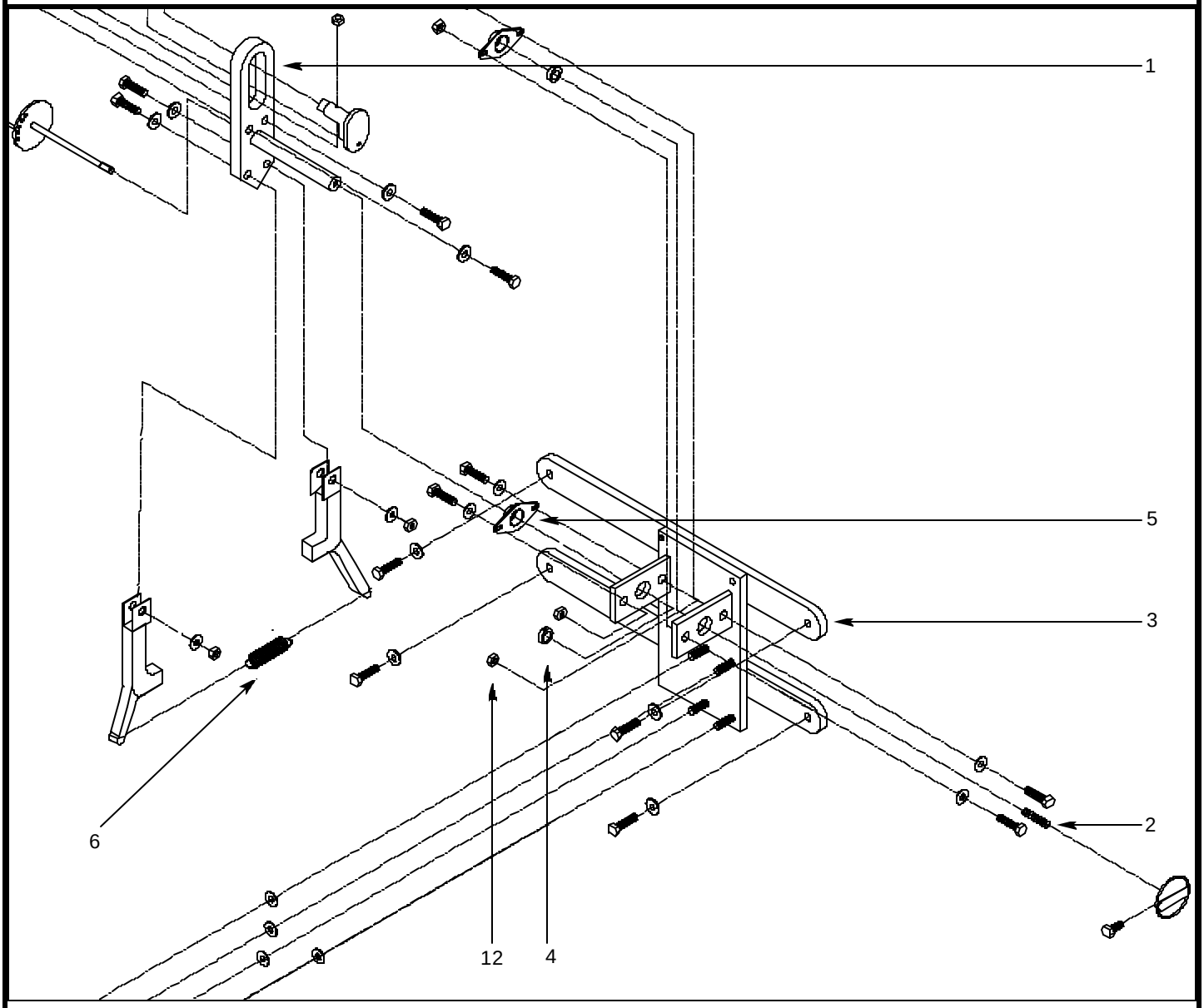
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Final Rinse Manifold Weldment	5700-031-74-88
2	1	Upper Rinse Arm with Nozzles	5700-021-74-89
3	4	Upper Rinse Arm Nozzles	5700-011-78-82
4	1	Lower Rinse Arm with Nozzles	5700-021-83-18
5	4	Lower Rinse Arm Nozzles	5700-011-78-82
6*	2	O-Ring (Not Shown)	5330-011-74-55
7*	2	Ring, Retaining, Rinse Head Bushing (Not Shown)	5340-112-01-11

DRIVE ASSEMBLY



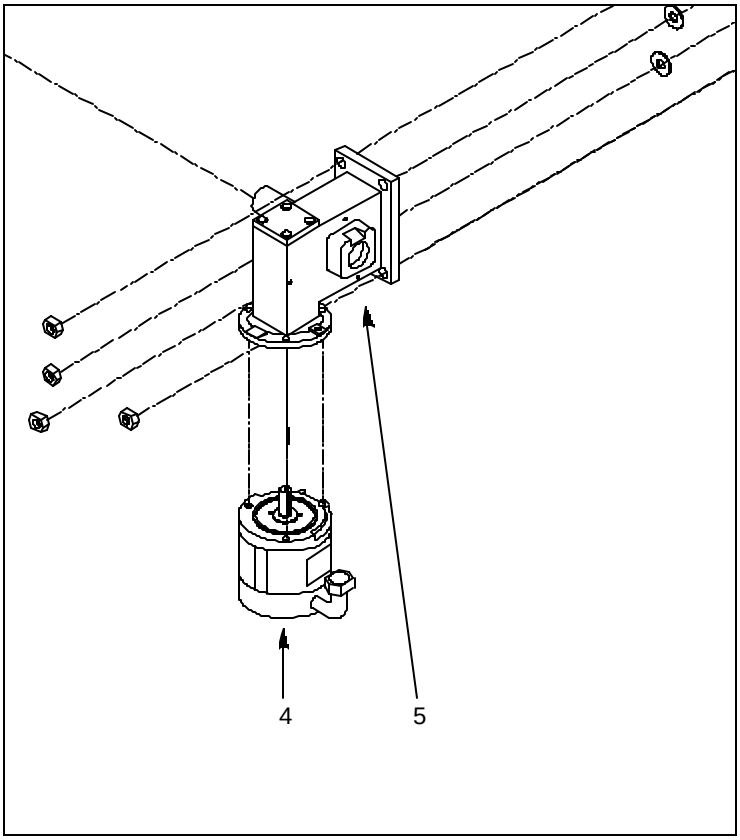
ITEM	QTY	DESCRIPTION	Mfg. No.
1	2	Pillow Block	3120-021-71-87
2	1	Drive Socket	5700-021-67-39
3	1	Drive Rod Plate	5700-021-67-42
4	1	Adjuster Crank Assembly	5700-021-69-95
5	1	Adjuster Skotch Yoke Weldment	5700-021-69-76
6	2	Coupling and Expansion Leg Weldment	5700-021-67-50
7	1	Pawl Bar Drive Linkage Casting	9515-021-87-73
8	2	Shaft Collar	5700-011-89-18
9	1	Spacer Plate	5700-011-67-58

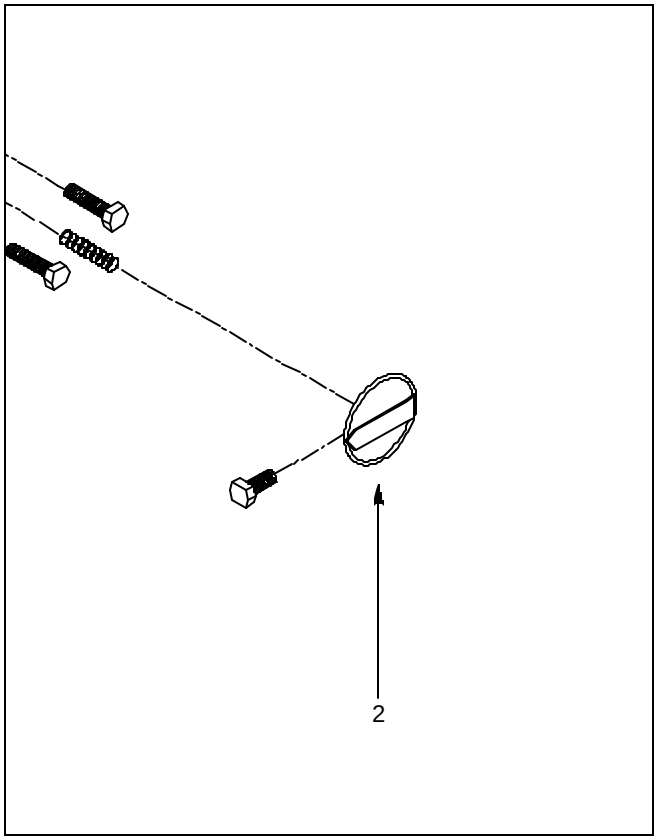
DRIVE ASSEMBLY (CONTINUED)

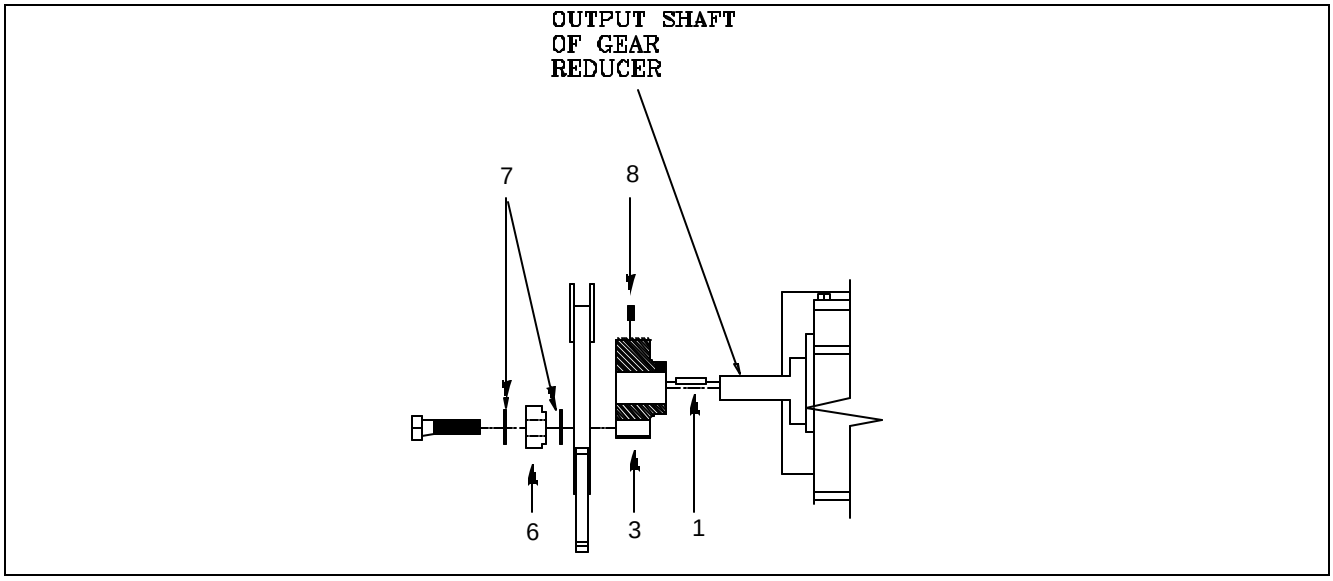


ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Drive Plate and Rod Weldment	5700-021-67-44
2	1	Adjuster Spring	5315-011-71-90
3	1	Drive Motor Mounting Bracket	5700-031-73-56
4	2	Shaft Collar	5700-011-89-18
5	2	Pillow Block	3120-021-71-87
6	1	Drive Spring	5315-011-83-51

DRIVE ASSEMBLY (CONTINUED)

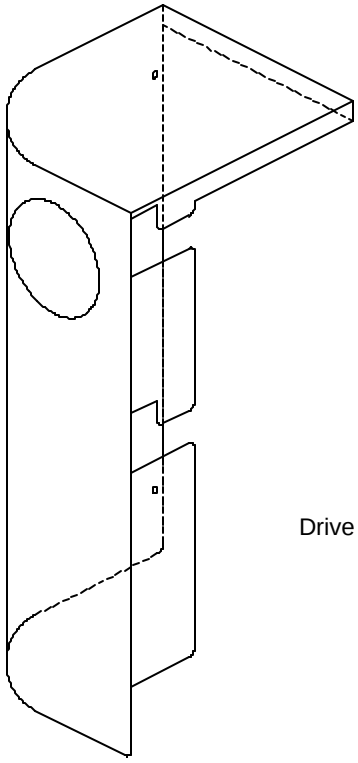




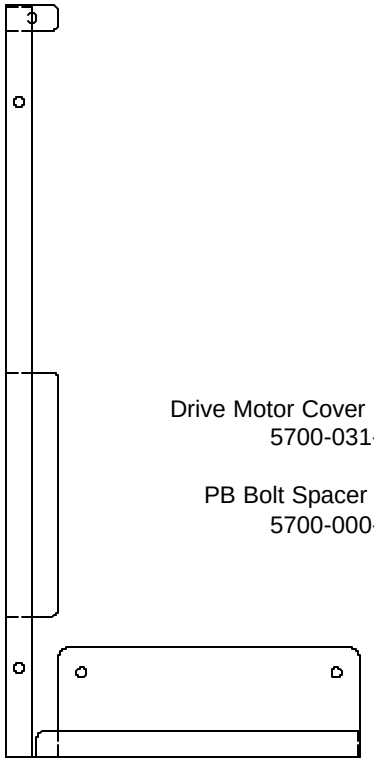


DRIVE ASSEMBLY (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Key	5700-011-71-52
2	1	Adjusting Handle Weldment	5700-021-72-28
3	1	Drive Hub	5700-011-67-97
4	1	Drive Motor	See Motors Page
5	1	Gear Drive	6105-011-87-20
6	1	Roller Bearing	3120-011-71-81
7	2	Washer, 1/2", Flat	5311-011-71-93
8	1	Set Screw	5305-011-71-51



Drive Motor Cover Front Weldment
5700-031-69-39



Drive Motor Cover Rear Weldment
5700-031-69-38

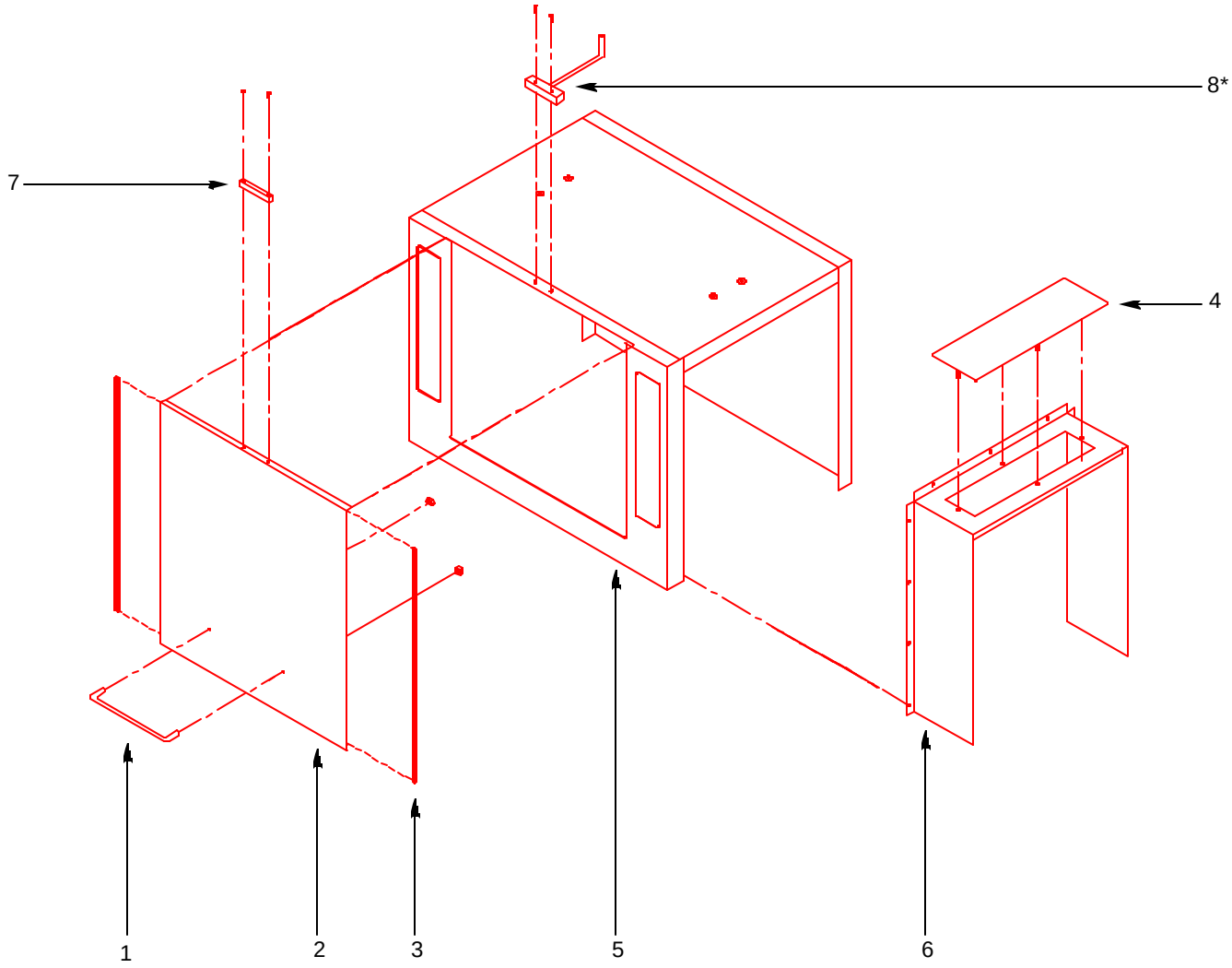
PB Bolt Spacer (Not Shown)
5700-000-29-40

LUBRICATION CHART FOR DRIVE GEAR

Note: The maintenance procedures detailed here are manufacturer's instructions for the WINSMITH brand of gear reducer that is installed on the rack conveyors covered in this manual.

Ambient Temperature	-30 - 15°F	16 - 50°F	51 - 95°F	51 - 95°F	96 - 131°F	96 - 131°F
Final Stage Worm Speed[1]	up to 2000 FPM	up to 2000 FPM	up to 450 FPM	above 450 FPM	up to 450 FPM	above 450 FPM
ISO Viscosity Grade	220	460	680	460	680	460[1]
AGMA Lubricant No.	5S[2]	#7 Compounded[3]	#8 Compounded[3]	#7 Compounded[3]	8S[2]	7S[2]
Mobil	SHC 630	600W Super Cylinder	Extra Hecla Super	600W Super Cylinder	SHC 636	SHC 634
American Lubricants	SHC-90W	AGMA #7 Gear Oil	AGMA #8 Gear Oil	AGMA #7 Gear Oil	N/A	N/A
Castrol	Tribol 800/220	Tribol 1105-7C	Tribol 1105-8C	Tribol 1105-7C	Tribol 800/680	Tribol 800/460
Chevron	Tegra 220	Cylinder Oil W460	Cylinder Oil W680	Cylinder Oil W460	Tegra 680	Tegra 460
Conoco	Syncon R & O 220	Inca Oil 460	Inca Oil 680	Inca Oil 460	N/A	Syncon R & O 460
Exxon (Esso)	Teresstic SHP220	Spartan EP 460	Spartan EP 680	Spartan EP 460	Teresstic SHP 680	Teresstic SHP 460
Fiske Brothers	SPO-MG	SPO-277	SPO-288	SPO-277	N/A	N/A
Shell	Omala RL 220	Valvata J 460	Valvata J 680	Valvata J 460	Omala RL 680	Omala RL 460
Texaco	Pinnacle 220	Vanguard 460	Vanguard 680	Vanguard 460	Pinnacle 680	Pinnacle 460

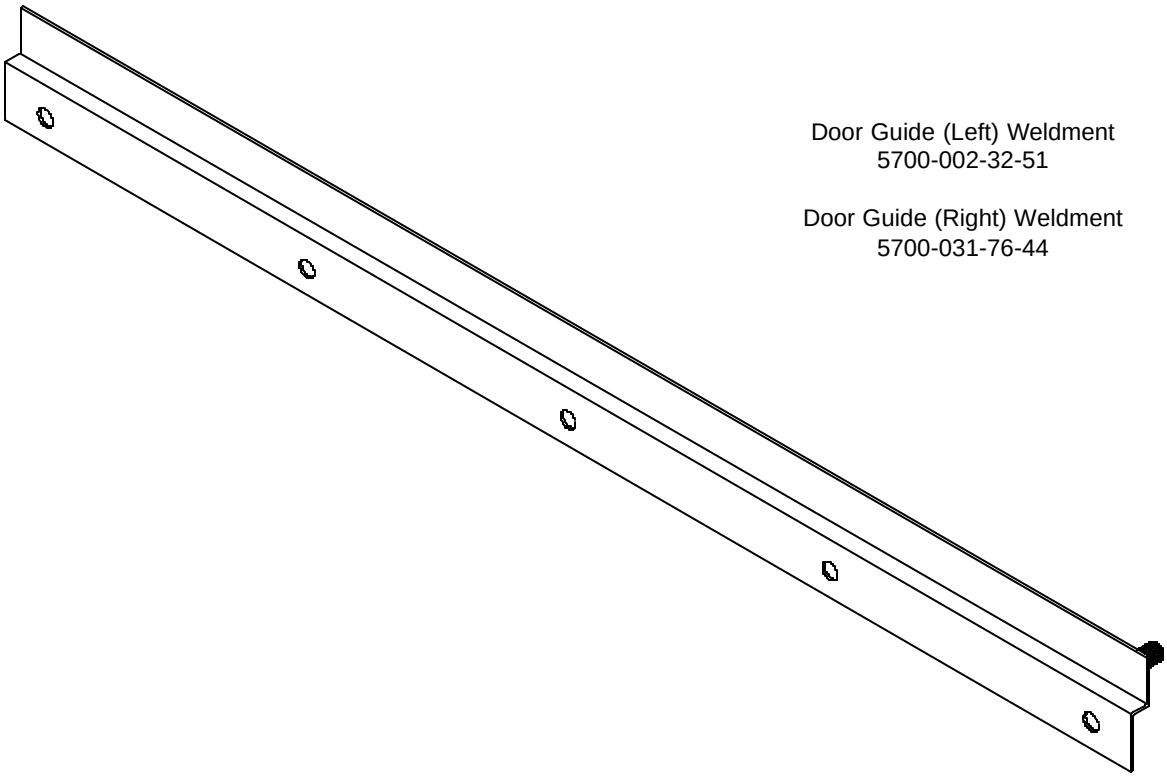
WASH DOOR & VENT COWL ASSEMBLY



Top Vent Cowl Gasket: 5330-031-83-47
Side Vent Cowl Gasket: 5330-031-83-48

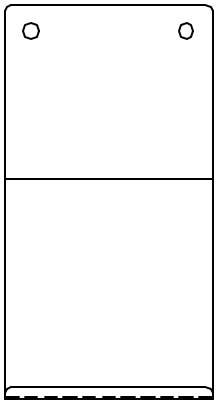
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Wash Door Handle Weldment	5700-011-82-63
2	1	Front Door Weldment	5700-031-87-07
3	2	Door Glide	5700-111-70-92
4	2	Vent Cowl Cover	5700-011-74-67
5	1	See Page Entitled “Hood Weldments”	N/A
6	2	Vent Cowl	5700-041-86-94
7	1	Magnet, Door Switch, Modified	5700-011-73-67
8*	1	Magnet, Door Switch, Hood Mounted	5930-111-51-22
		NOTE: Stainless Steel Switch Box Weldment is no longer available.	

MISCELLANEOUS DOOR ASSEMBLIES

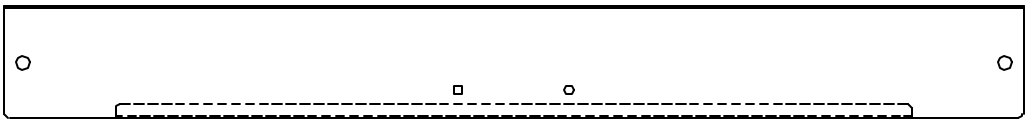


Door Guide (Left) Weldment
5700-002-32-51

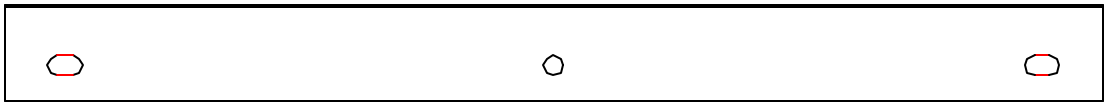
Door Guide (Right) Weldment
5700-031-76-44



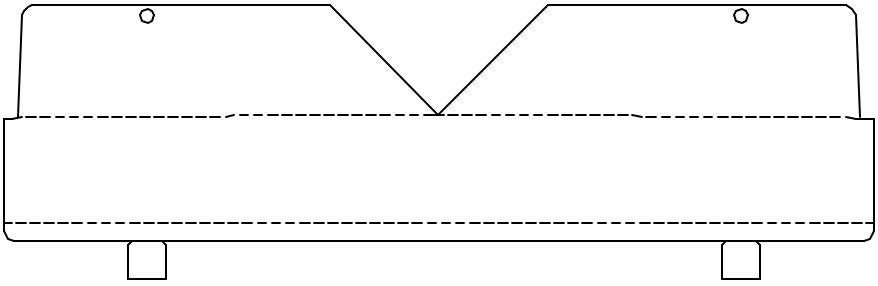
Door Catch Weldment
5700-031-84-80



Door/Hood Support Weldment
5700-031-87-08

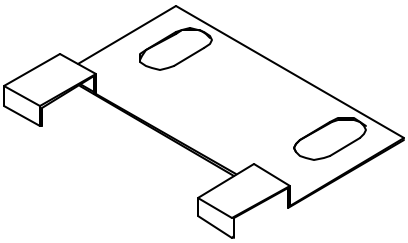


Door Splash Guard
5700-021-85-31

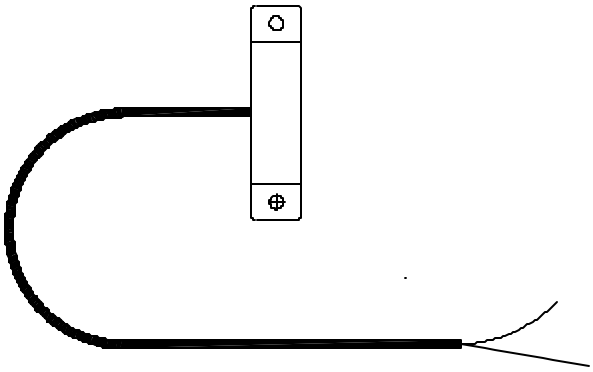


Splash Shield Weldment
5700-031-85-16

MAGNET SWITCHES/RACK RAIL ACTUATOR SWITCH ASSEMBLIES

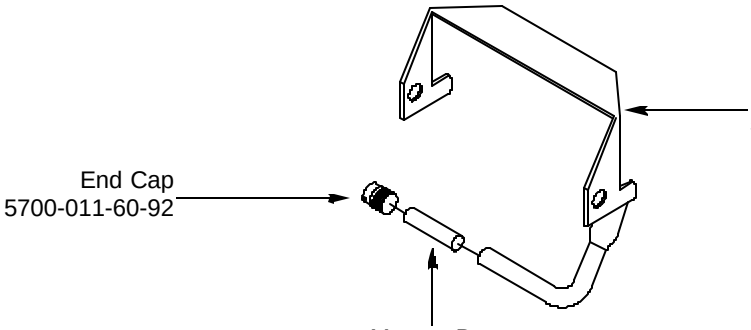


Limit Switch Bracket
5700-021-71-18

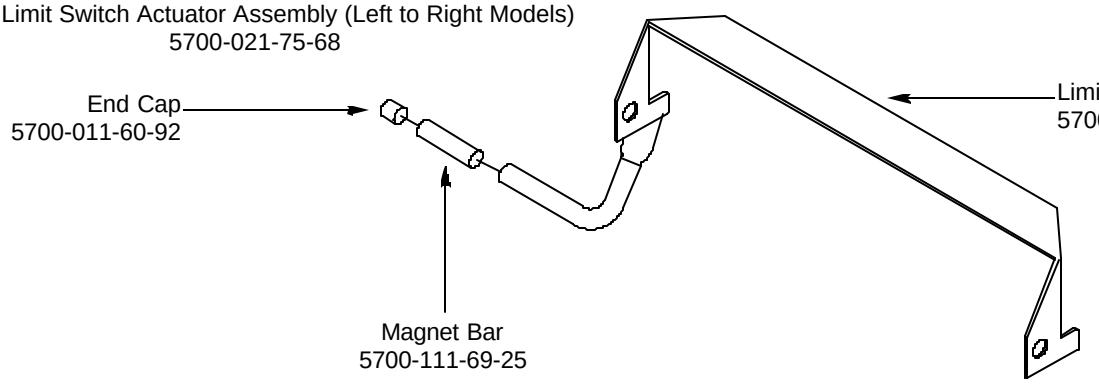


Magnetic Reed Switch
5930-111-68-44

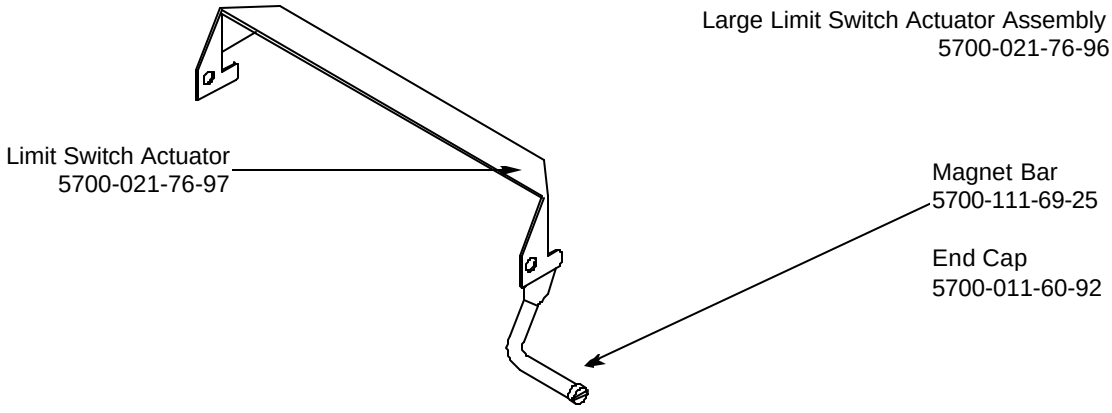
Small Limit Switch Actuator Assembly
5700-021-75-67



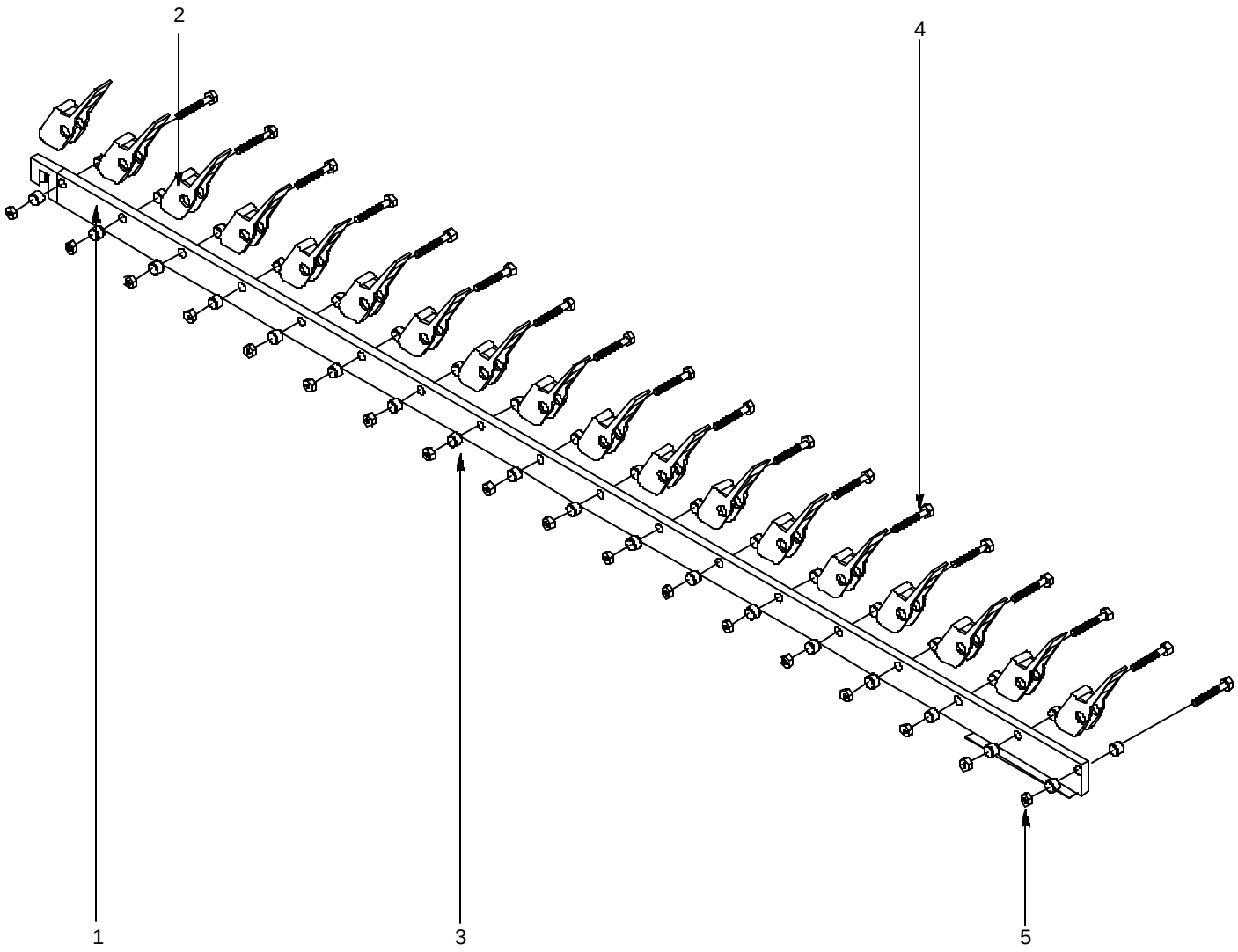
Large Limit Switch Actuator Assembly (Left to Right Models)
5700-021-75-68



Large Limit Switch Actuator Assembly (Right to Left Models)
5700-021-76-96



PAWL BAR ASSEMBLY/RACK RAIL WELDMENTS



This entire assembly may be ordered using part number 5700-031-81-02.

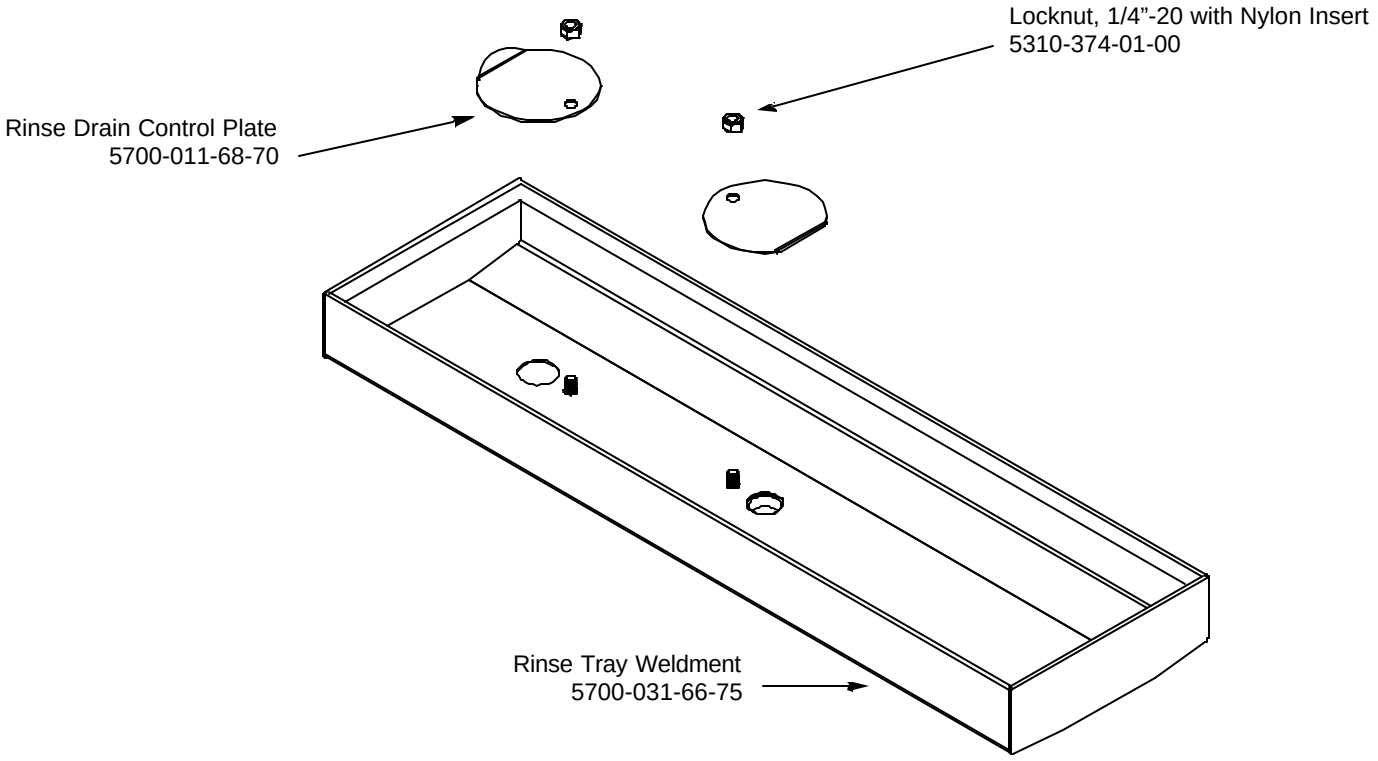
ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Pawl Bar Weldment	5700-031-81-03
2	18	Pawl Bar Dog Casting	5700-021-69-00
3	36	Pawl Bar Spacer	5700-011-71-45
4	18	Bolt, 3/8”-16 x 1-3/4” Long	5306-011-36-94
5	18	Locknuts, 3/8”-16 with Nylon Insert	5700-011-72-55

RACK RAIL WELDMENTS:

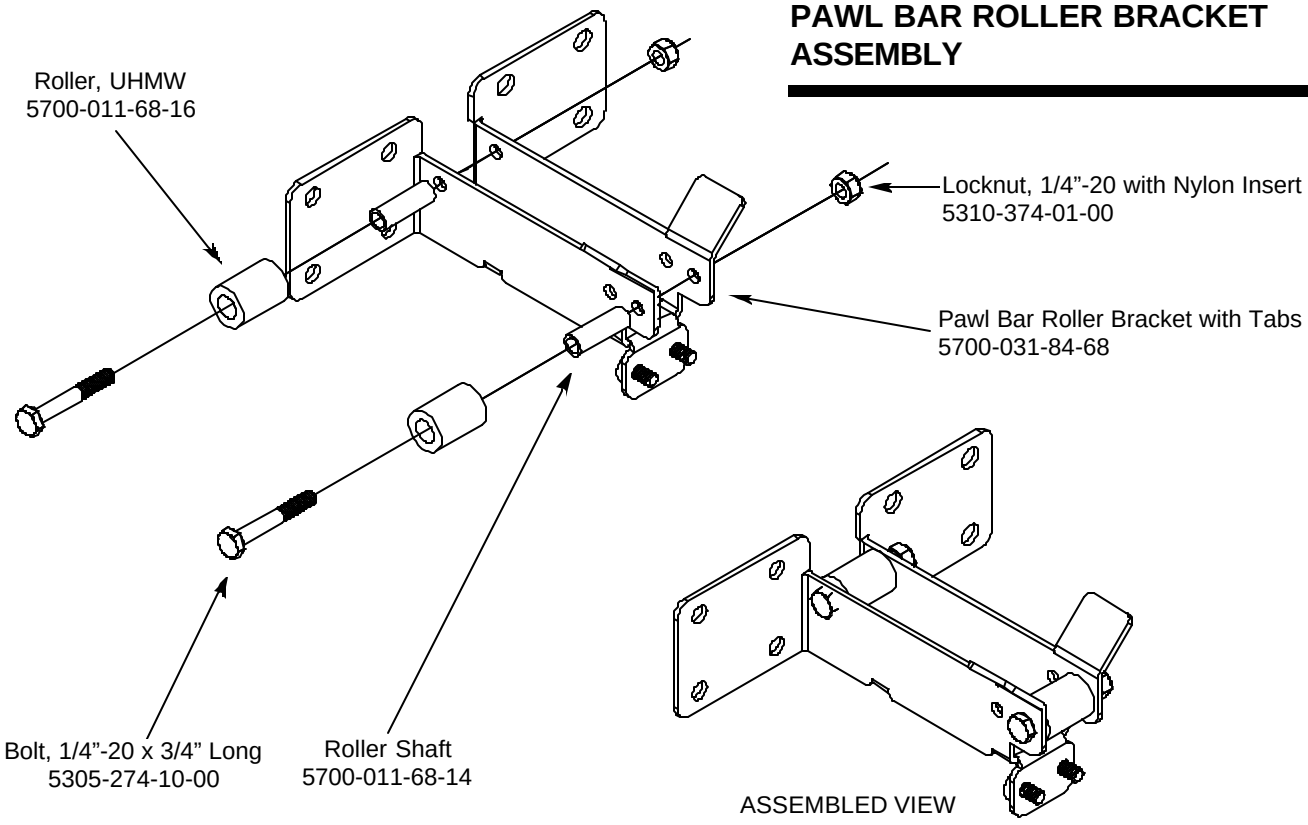
Rack Rail Weldment with Connections for Actuators (Left to Right)	5700-002-74-57
Rack Rail without Connections for Actuators (Left to Right)	5700-041-82-78
Rack Rail Weldment with Connections for Actuators (Right to Left)	5700-002-74-58
Rack Rail without Connections for Actuators (Left to Right)	5700-041-82-78

RINSE TRAY/PAWL BAR ROLLER BRACKET ASSEMBLY

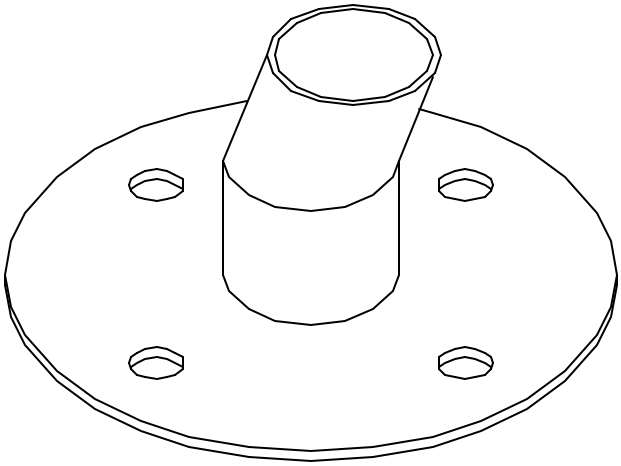
Order the Rinse Tray Strainer Weldment using part number 5700-041-85-09.



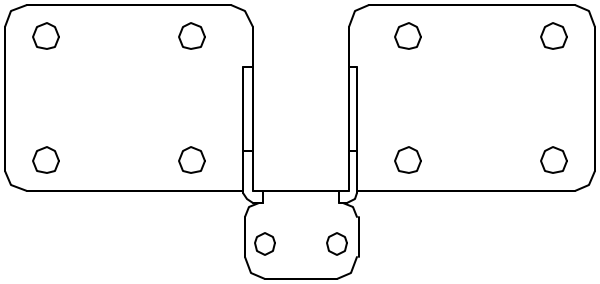
PAWL BAR ROLLER BRACKET ASSEMBLY



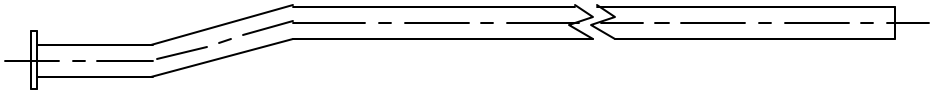
MISCELLANEOUS PARTS & WELDMENTS



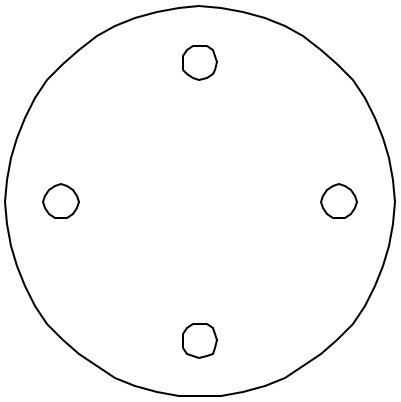
Rinse Drain Weldment
5700-021-68-28



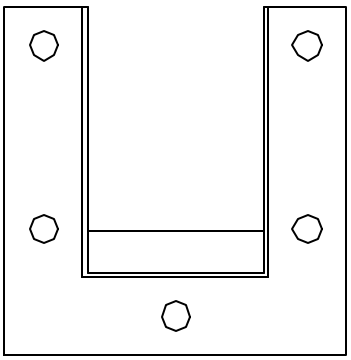
Pawl Bar Roller Bracket Weldment without Studs
5700-031-92-36



Wash Fill Tube Weldment
5700-021-71-21

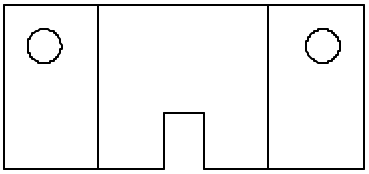


Rinse Drain Plug
5700-011-68-59

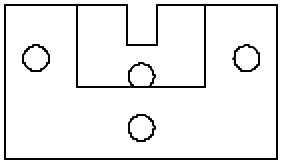


Pawl Bar Gutter Weldment
5700-021-66-86

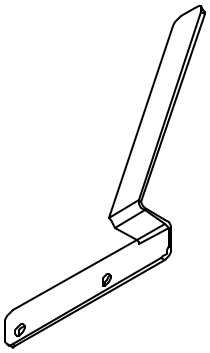
MISCELLANEOUS PARTS & WELDMENTS (CONTINUED)



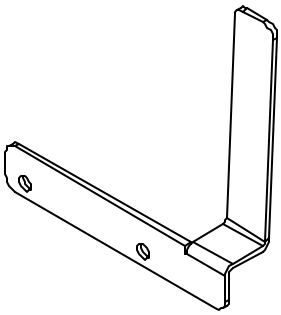
Top Guide Block
5700-011-69-49



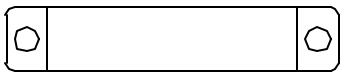
Bottom Guide Block
5700-011-69-50

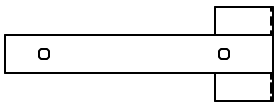


Right Rinse Pan Locator Bracket
5700-021-92-37



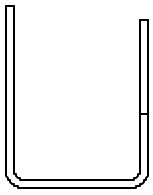
Left Rinse Pan Locator Bracket
5700-021-92-38

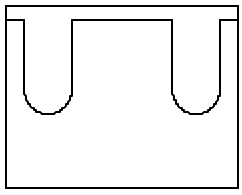




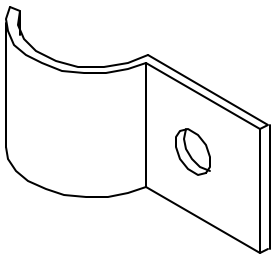
Upper Wash Manifold Support Bracket
5700-021-73-97

Conduit Bracket
5700-021-70-88



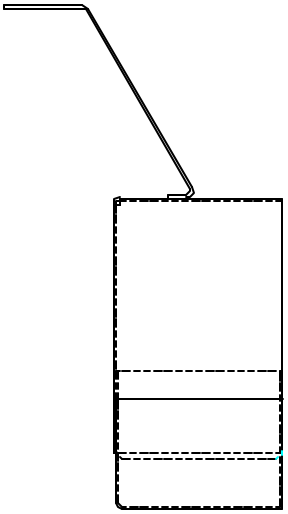


Rinse Arm Support Bracket
5700-011-71-19

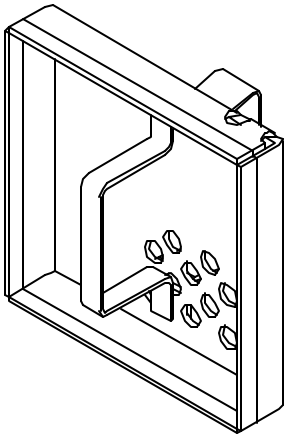


Pipe Clamp
5700-000-35-05

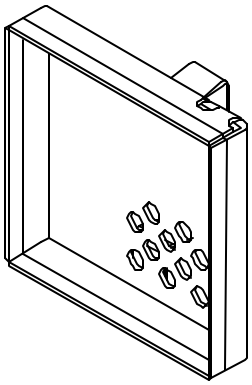
STRAINERS



Intake Suction Scoop Strainer Weldment
5700-021-87-60

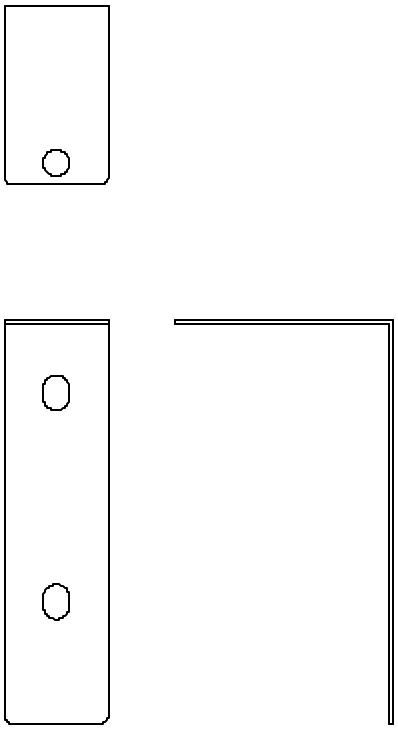


Drain Guard Strainer Weldment
5700-002-09-15

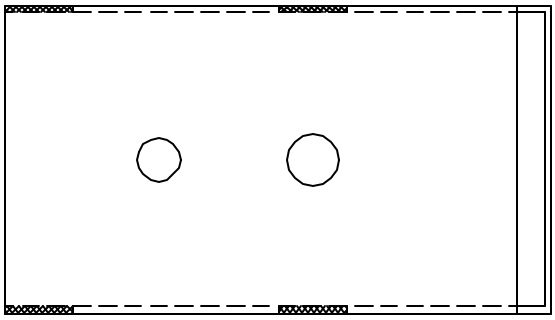


Screen Strainer with Handle
Weldment
5700-002-09-04

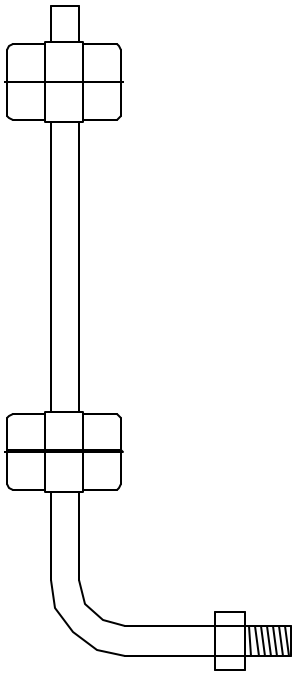
FLOAT SWITCH ASSEMBLY



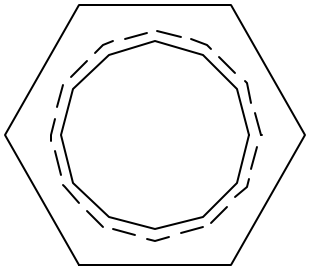
Float Support Bracket
5700-021-85-15



Float Switch Cover
5700-021-75-71



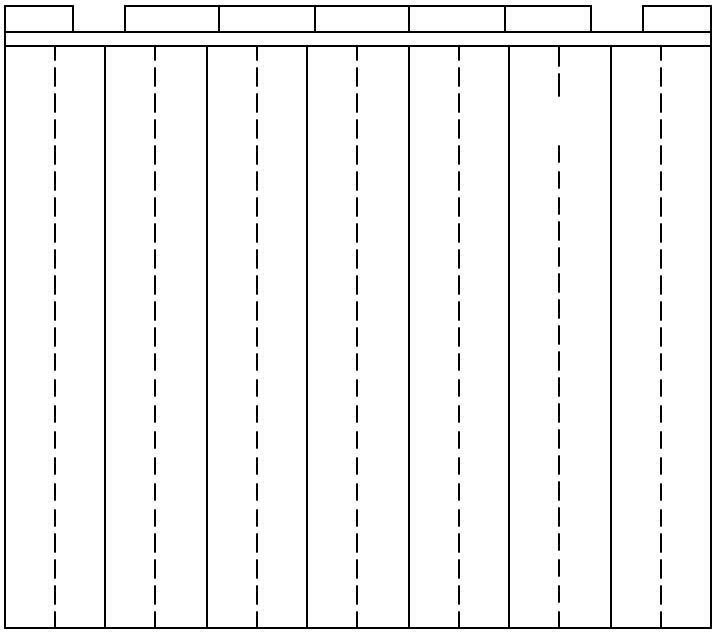
Dual Float Switch
6680-121-70-71



Float Switch Nut (1/2”-13 Thread)
5310-011-72-58

Order the 1/2” Flat Washer using part number 5700-011-71-93.

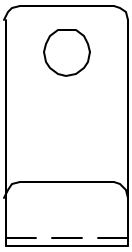
CURTAINS



Curtain, 21” Long x 20.5” Wide
8415-131-73-45

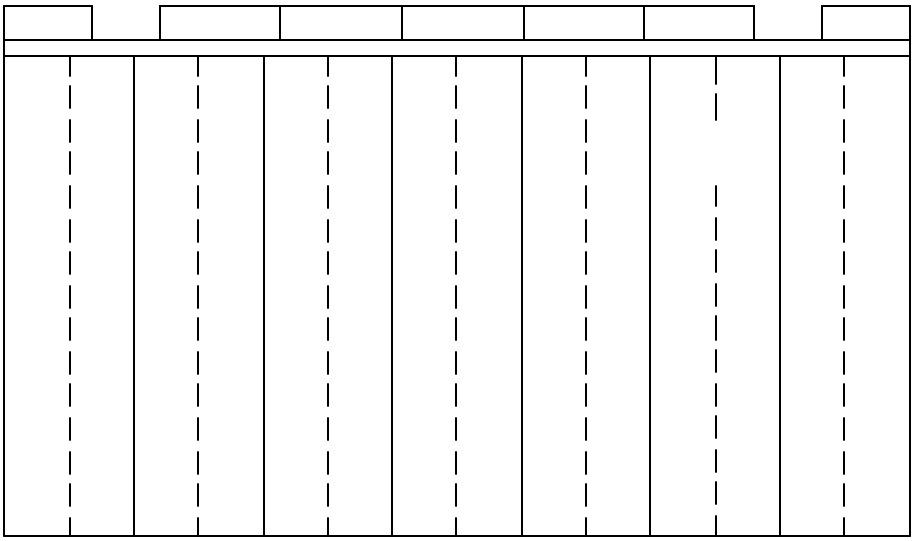
Middle Curtain Hook
5700-011-72-65
Secured with Locknut, 1/4”-20 with Nylon Insert
5310-374-01-00

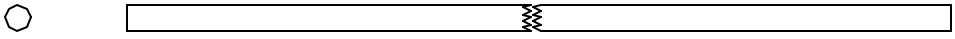
Curtain, 12” Long x 20.5” Wide
8415-131-73-44



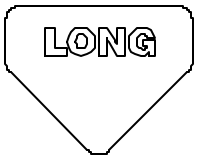
Curtain Hook
5700-011-83-54

Secured with Locknut, 1/4”-20 with Nylon Insert
5310-374-01-00

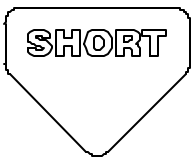




Curtain Rod
5700-021-73-43

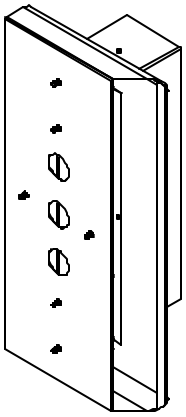


Long Curtain Decal
9905-011-73-84

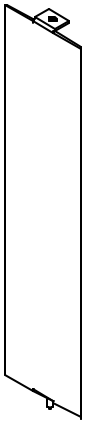


Short Curtain Decal
9905-011-73-82

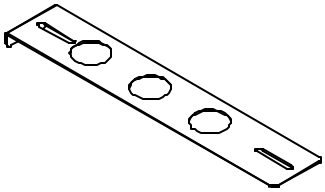
VENT SCOOP OPTION/EXHAUST FAN CONTROL OPTION



Vent Scoop Weldment
5700-002-12-18

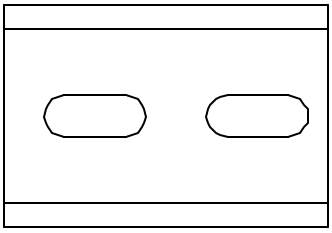


Vent Cowl Baffle Weldment
5700-002-11-47

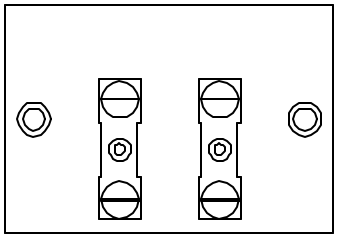


Scoop Damper
5700-002-36-55

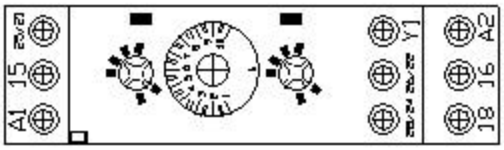
EXHAUST FAN CONTROL OPTION



2" Din Rail
5700-002-36-09



Terminal Board
5940-011-84-41

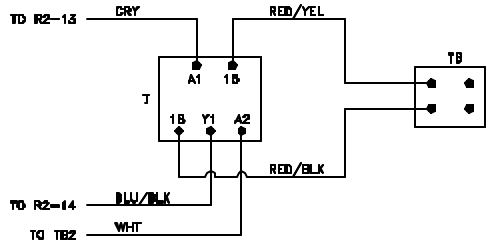


Delay Timer
5945-011-65-44

CONVEYOR EXHAUST FAN HOOKUP

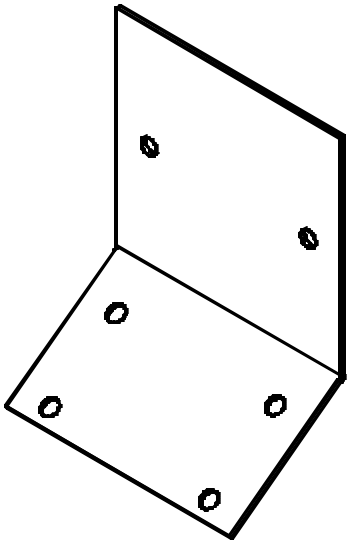
LEGEND

T	TIMER
TB	TERMINAL BOARD

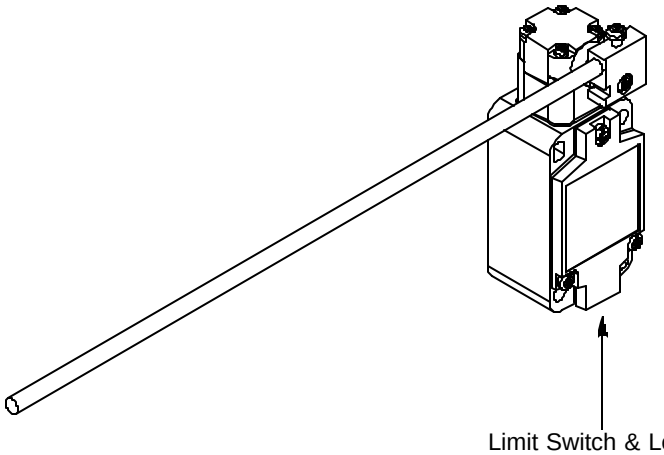


9005-002-55-00a

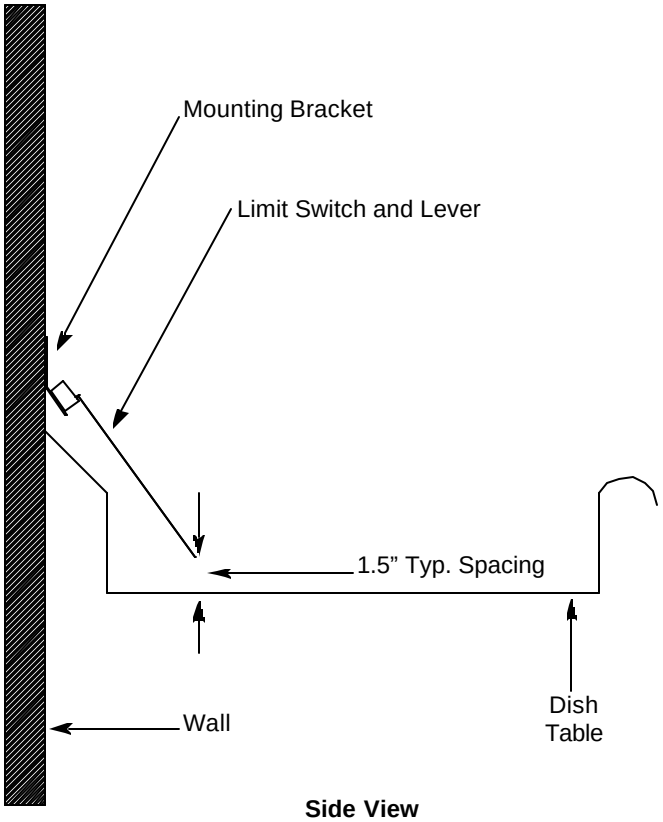
TABLE LIMIT SWITCH OPTION



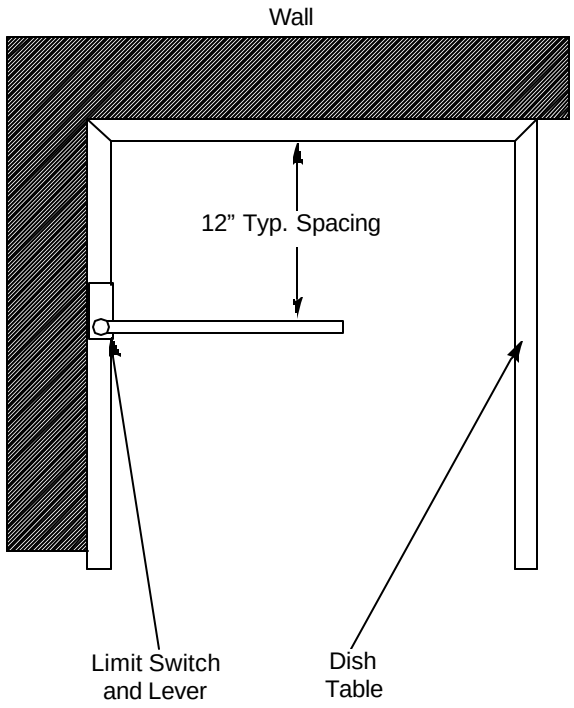
Switch Mounting Bracket
5700-000-14-55



Limit Switch & Lever
5930-303-40-01



Side View



Top View

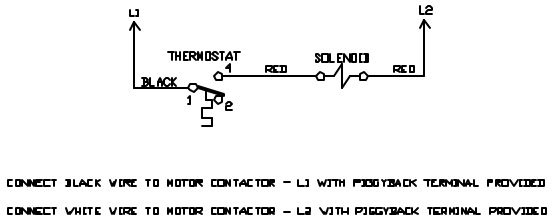
Associated Hardware:

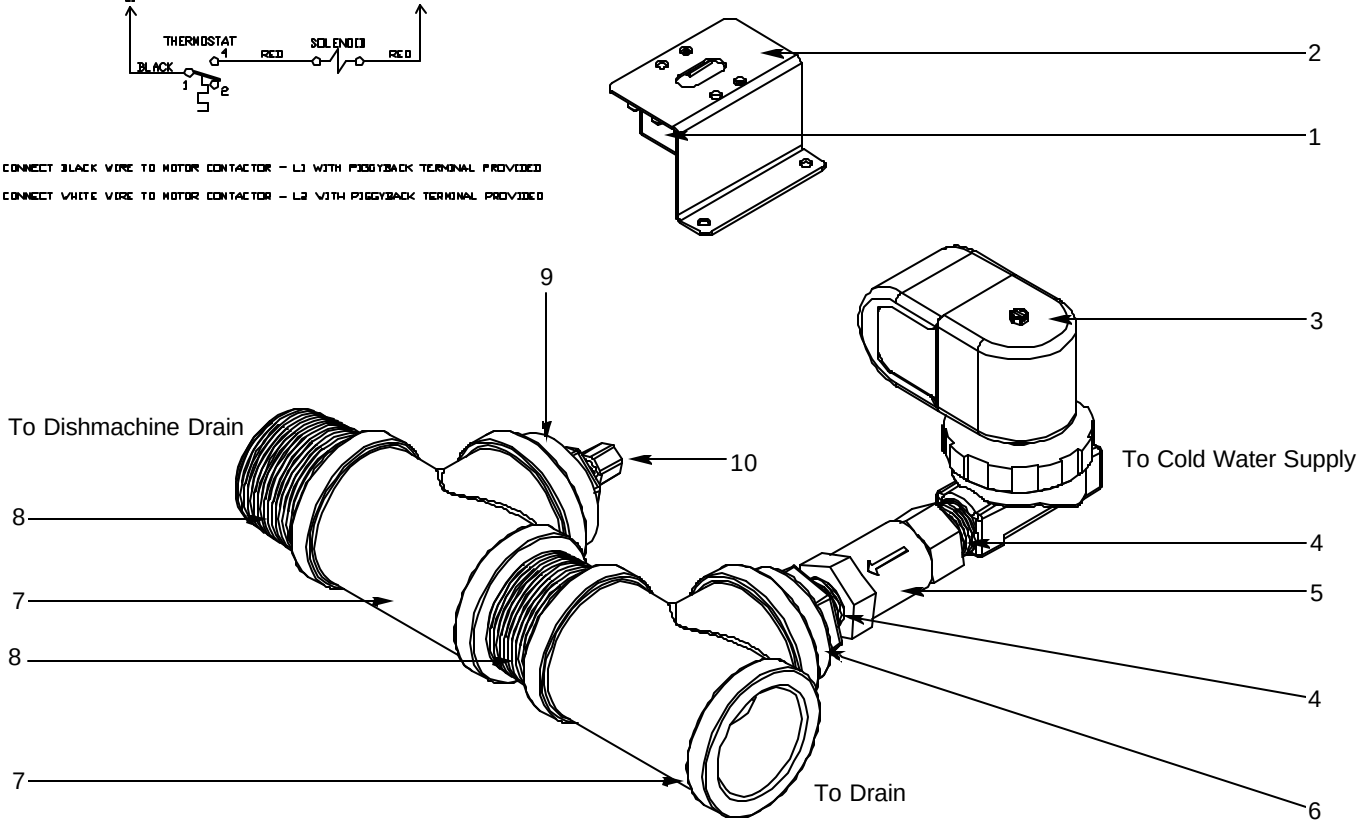
Screw, 10-32 x 1-1/2” Long Fillister Head	5305-973-01-00
Locknut, 10-32 with Nylon Insert	5310-373-02-00

For a complete replacement kit that comes with all of the hardware, conduit and wiring, use part number 5700-002-06-83.

DRAIN QUENCH SYSTEM (CONVEYOR SERIES)

Schematic



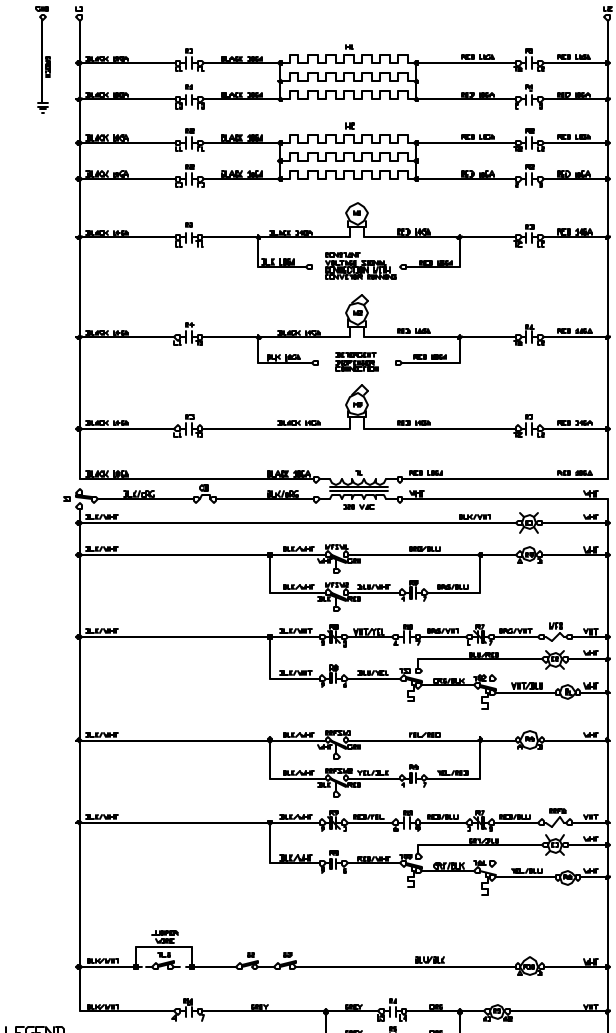


From the existing drain, attach the two additional Tees (Item 7) using the 1-1/2" NPT Close Nipples)Item 8). Tighten the Reducers (Items 6 & 9) into the Tees as shown above. Attach the Modified Compression Fitting (Item 10) into the 1-1/2" to 1/4" Reducer (Item 9). Position the bulb of the thermostat (Item 1) so that it rests approximately 1/4" from the bottom of the Tee (Item 7). Tighten the Modified Compression Fitting (Item 10) as required.

Mount the Thermostat (Item 1) ti the tub using the Thermostat Bracket (Item 2) and set it for 120°F - 140°F. Install the Solenoid Valve (Item 3) to the second Tee (Item 7) and then attach to the incoming cold water line. Use pipe dope or thread tape as required to prevent any leaks.

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Thermostat	5930-121-67-72
2	1	Thermostat Bracket	5700-022-73-72
3	1	Solenoid Valve	4810-100-09-18
4	2	Nipple, Close, 1/2: NPT, Brass	4730-207-15-00
5	1	Valve, Check, 1/2"	4820-002-55-77
6	1	Reducer, 1-1/2" to 1/2"	4730-002-55-75
7	2	Tee, 1-1/2" x 1-1/2" x 1-1/2"	4730-011-69-93
8	2	Nipple, 1-1/2", Close, Brass	4730-207-40-00
9	1	Reducer, 1-1/2" to 1/4"	4730-002-55-76
10	1	Modified Compression Fitting	5700-001-16-52
	1	Complete Kit	6401-002-44-07

AJ-64CE
ELECTRICAL DIAGRAM
208V/230V - 60 HERTZ - SINGLE PHASE

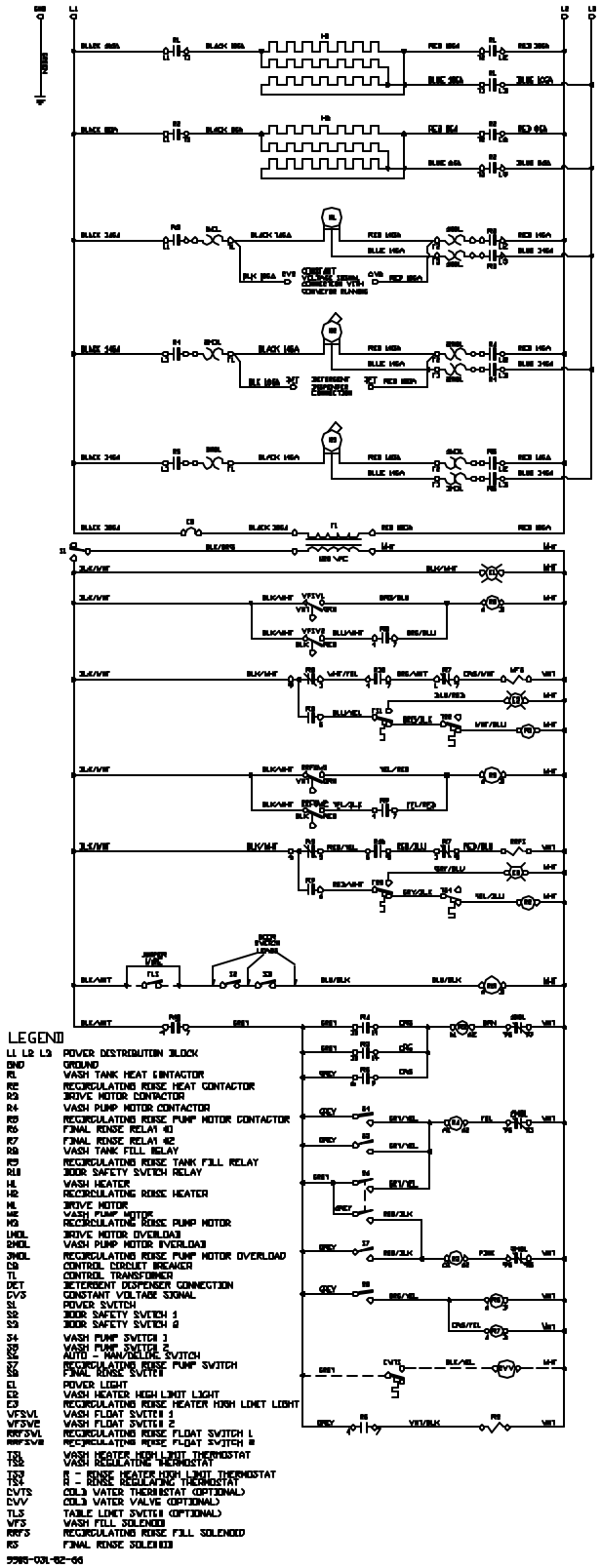


LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
R1	WASH TANK HEAT CONTACTOR
R2	RECIRCULATING RINSE HEAT CONTACTOR
R3	DRIVE MOTOR CONTACTOR
R4	WASH PUMP MOTOR CONTACTOR
R5	RECIRCULATING RINSE PUMP MOTOR CONTACTOR
R6	FINAL RINSE RELAY #1
R7	FINAL RINSE RELAY #2
R8	WASH TANK FILL RELAY
R9	RECIRCULATING RINSE TANK FILL RELAY
R10	DOOR SAFETY SWITCH RELAY
H1	WASH HEATER
H2	RECIRCULATING RINSE HEATER
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	RECIRCULATING RINSE PUMP MOTOR
CB	CONTROL CIRCUIT BREAKER
T1	CONTROL TRANSFORMER
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH 1
S3	DOOR SAFETY SWITCH 2
S4	WASH PUMP SWITCH 1
S5	WASH PUMP SWITCH 2
S6	AUTO - MAN/DECLINE SWITCH
S7	RECIRCULATING RINSE PUMP SWITCH
S8	FINAL RINSE SWITCH
E1	POWER LIGHT
E2	WASH HEATER HIGH LIMIT LIGHT
E3	RECIRCULATING RINSE HEATER HIGH LIMIT LIGHT
WFSW1	WASH FLOAT SWITCH 1
WFSW2	WASH FLOAT SWITCH 2
RRFSW1	RECIRCULATING RINSE FLOAT SWITCH 1
RRFSW2	RECIRCULATING RINSE FLOAT SWITCH 2
TSH	WASH HEATER HIGH LIMIT THERMOSTAT
TSR	WASH REGULATING THERMOSTAT
TSH	R - RINSE HEATER HIGH LIMIT THERMOSTAT
TSR	R - RINSE REGULATING THERMOSTAT
CWTS	COLD WATER THERMOSTAT (OPTIONAL)
CWV	COLD WATER VALVE (OPTIONAL)
TLS	TABLE LIMIT SWITCH (OPTIONAL)
WFS	WASH FILL SOLENOID
RRFS	RECIRCULATING RINSE FILL SOLENOID
RS	FINAL RINSE SOLENOID

9885-802-30-7I

AJ-64CE
ELECTRICAL DIAGRAM
208V/230V - 60 HERTZ - THREE PHASE

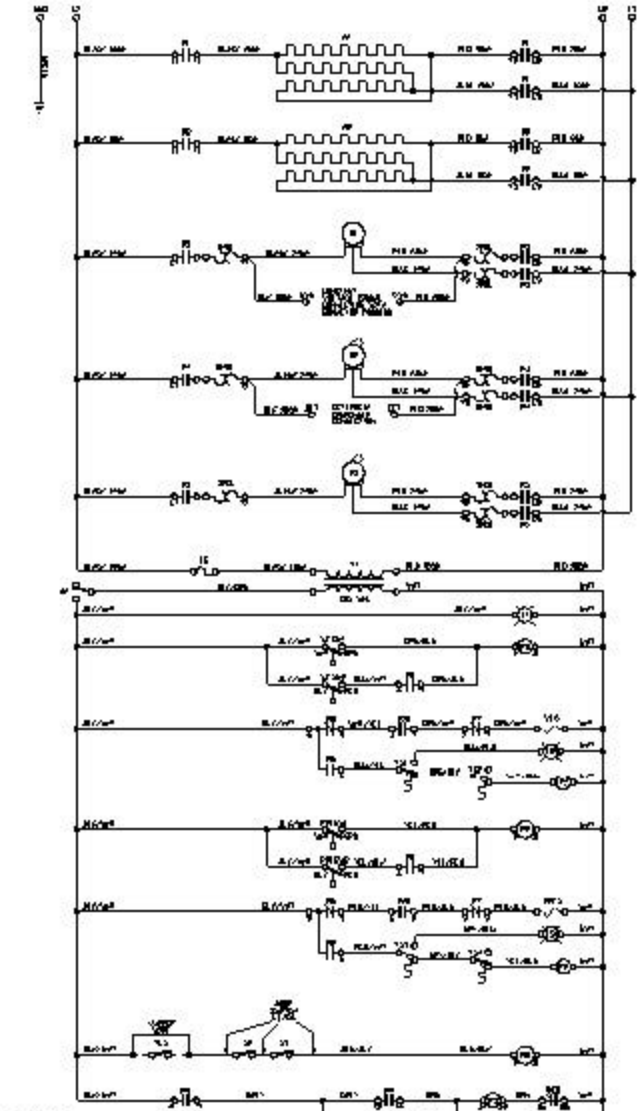


LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
RL	WASH TANK HEAT CONTACTOR
RR2	RECIRCULATING RINSE HEAT CONTACTOR
R3	DRIVE MOTOR CONTACTOR
R4	WASH PUMP MOTOR CONTACTOR
R5	RECIRCULATING RINSE PUMP MOTOR CONTACTOR
R6	FINAL RINSE RELAY #1
R7	FINAL RINSE RELAY #2
R8	WASH TANK FILL RELAY
R9	RECIRCULATING RINSE TANK FILL RELAY
R10	DOOR SAFETY SWITCH RELAY
HL	WASH HEATER
HR	RECIRCULATING RINSE HEATER
ML	DRIVE MOTOR
MW	WASH PUMP MOTOR
MR	RECIRCULATING RINSE PUMP MOTOR
1MOL	DRIVE MOTOR OVERLOAD
2MOL	WASH PUMP MOTOR OVERLOAD
3MOL	RECIRCULATING RINSE PUMP MOTOR OVERLOAD
CB	CONTROL CIRCUIT BREAKER
TL	CONTROL TRANSFORMER
DET	DETERGENT DISPENSER CONNECTION
CVS	CONSTANT VOLTAGE SIGNAL
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH 1
S3	DOOR SAFETY SWITCH 2
S4	WASH PUMP SWITCH 1
S4S2	WASH PUMP SWITCH 2
S5	AUTO - MANUAL SWITCH
S6	RECIRCULATING RINSE PUMP SWITCH
S8	FINAL RINSE SWITCH
L1	POWER LIGHT
L2	WASH HEATER HIGH LIMIT LIGHT
L3	RECIRCULATING RINSE HEATER HIGH LIMIT LIGHT
WFSWL	WASH FLOAT SWITCH 1
WFSWR	WASH FLOAT SWITCH 2
RRFSWL	RECIRCULATING RINSE FLOAT SWITCH L
RRFSWR	RECIRCULATING RINSE FLOAT SWITCH R
TS1	WASH HEATER HIGH LIMIT THERMOSTAT
TS2	WASH REGULATING THERMOSTAT
TS3	R - RINSE HEATER HIGH LIMIT THERMOSTAT
TS4	R - RINSE REGULATING THERMOSTAT
CVTS	COLD WATER THERMOSTAT (OPTIONAL)
CVV	COLD WATER VALVE (OPTIONAL)
TLS	TABLE LIMIT SWITCH (OPTIONAL)
WFS	WASH FILL SOLENOID
RRFS	RECIRCULATING RINSE FILL SOLENOID
RS	FINAL RINSE SOLENOID

5566-03L-62-66

AJ-64CE
ELECTRICAL DIAGRAM
460V - 60 HERTZ - THREE PHASE



LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
M1	WASH TANK HEAT CONTACTOR
M2	RECIRCULATING PUMP HEAT CONTACTOR
M3	DRIVE MOTOR CONTACTOR
M4	WASH PUMP MOTOR CONTACTOR
M5	RECIRCULATING PUMP MOTOR CONTACTOR
M6	FINAL RINSE RELAY #1
M7	FINAL RINSE RELAY #2
M8	WASH TANK FILL RELAY
M9	RECIRCULATING PUMP TANK FILL RELAY
M10	DOOR SAFETY SWITCH RELAY
H1	WASH HEATER
H2	RECIRCULATING PUMP HEATER
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	RECIRCULATING PUMP MOTOR
1OL	DRIVE MOTOR OVERLOAD
2OL	WASH PUMP MOTOR OVERLOAD
3OL	RECIRCULATING PUMP MOTOR OVERLOAD
FS	CONTROL FUSE
T1	CONTROL TRANSFORMER
J61	DETERGENT DISPENSER CONNECTION
CVS	CONSTANT VOLTAGE SIGNAL
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH 1
S3	DOOR SAFETY SWITCH 2
S4	WASH PUMP SWITCH 1
S5	WASH PUMP SWITCH 2
S6	AUTO - MANUAL SWITCH
S7	RECIRCULATING PUMP SWITCH
S8	FINAL RINSE SWITCH
L1	POWER LIGHT
L2	WASH HEATER HIGH LIMIT LIGHT
L3	RECIRCULATING PUMP HEATER HIGH LIMIT LIGHT
WFSM	WASH FLOAT SWITCH 1
WFSW	WASH FLOAT SWITCH 2
RFFSM	RECIRCULATING PUMP FLOAT SWITCH 1
RFFSW	RECIRCULATING PUMP FLOAT SWITCH 2
T33	WASH HEATER HIGH LIMIT THERMOSTAT
T33	WASH REGULATING THERMOSTAT
T33	F - RINSE HEATER HIGH LIMIT THERMOSTAT
T34	F - RINSE REGULATING THERMOSTAT
CWT3	COLD WATER THERMOSTAT (OPTIONAL)
CVV	COLD WATER VALVE (OPTIONAL)
TLS	TABLE LIMIT SWITCH (OPTIONAL)
WFS	WASH FILL SOLENOID
RFFS	RECIRCULATING PUMP FILL SOLENOID
FS	FINAL RINSE SOLENOID

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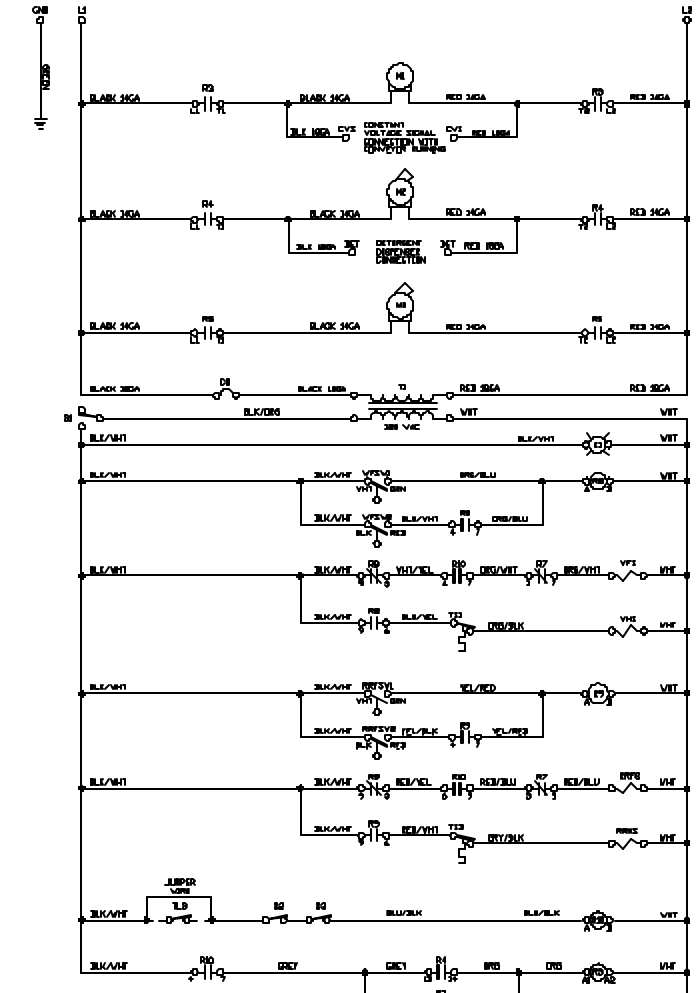
AJ-64CS
ELECTRICAL DIAGRAM
208V/230V - 60 HERTZ - THREE PHASE



LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
R3	DRIVE MOTOR CONTACTOR
R4	WASH PUMP MOTOR CONTACTOR
R5	R - RINSE PUMP MOTOR CONTACTOR
R6	FINAL RINSE RELAY #1
R7	FINAL RINSE RELAY #2
R8	WASH TANK FILL RELAY
R9	RECIRCULATING RINSE TANK FILL RELAY
R10	DOOR SAFETY SWITCH RELAY
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	RECIRCULATING RINSE PUMP MOTOR
CB	CONTROL CIRCUIT BREAKER
TL	CONTROL TRANSFORMER
DET	DETERGENT DISPENSER CONNECTION
CVS	CONSTANT VOLTAGE SIGNAL
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH 1
S3	DOOR SAFETY SWITCH 2
S4	WASH PUMP SWITCH 1
S5	WASH PUMP SWITCH 2
S6	AUTO - MAN/DELIME SWITCH
S7	RECIRCULATING RINSE PUMP SWITCH
S8	FINAL RINSE SWITCH
EL	POWER LIGHT
WHS	WASH HEAT SOLENOID
RRHS	RECIRCULATING RINSE HEAT SOLENOID
WFSW1	WASH FLOAT SWITCH 1
WFSW2	WASH FLOAT SWITCH 2
RRFSW1	RECIRCULATING RINSE FLOAT SWITCH 1
RRFSW2	RECIRCULATING RINSE FLOAT SWITCH 2
TSL	WASH REGULATING THERMOSTAT
TS3	R - RINSE REGULATING THERMOSTAT
CWTS	COLD WATER THERMOSTAT (OPTIONAL)
CWV	COLD WATER VALVE (OPTIONAL)
TLS	TABLE LIMIT SWITCH (OPTIONAL)
WFS	WASH FILL SOLENOID
RRFS	RECIRCULATING RINSE FILL SOLENOID
RS	FINAL RINSE SOLENOID

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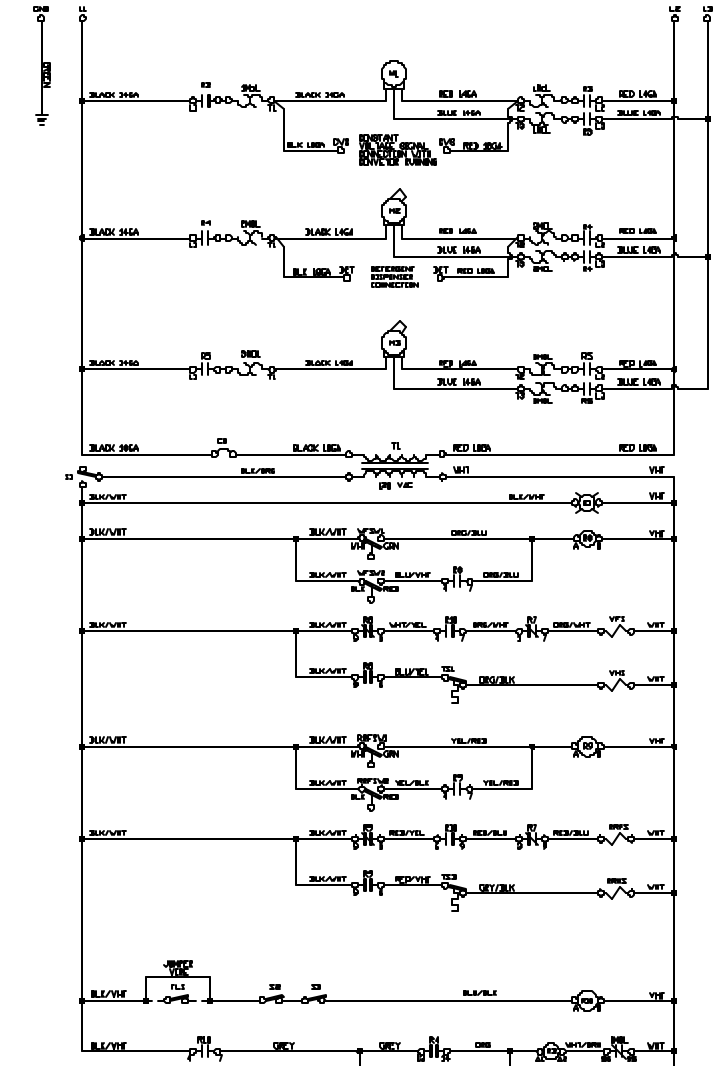
AJ-64CS
ELECTRICAL DIAGRAM
208V/230V - 60 HERTZ - THREE PHASE

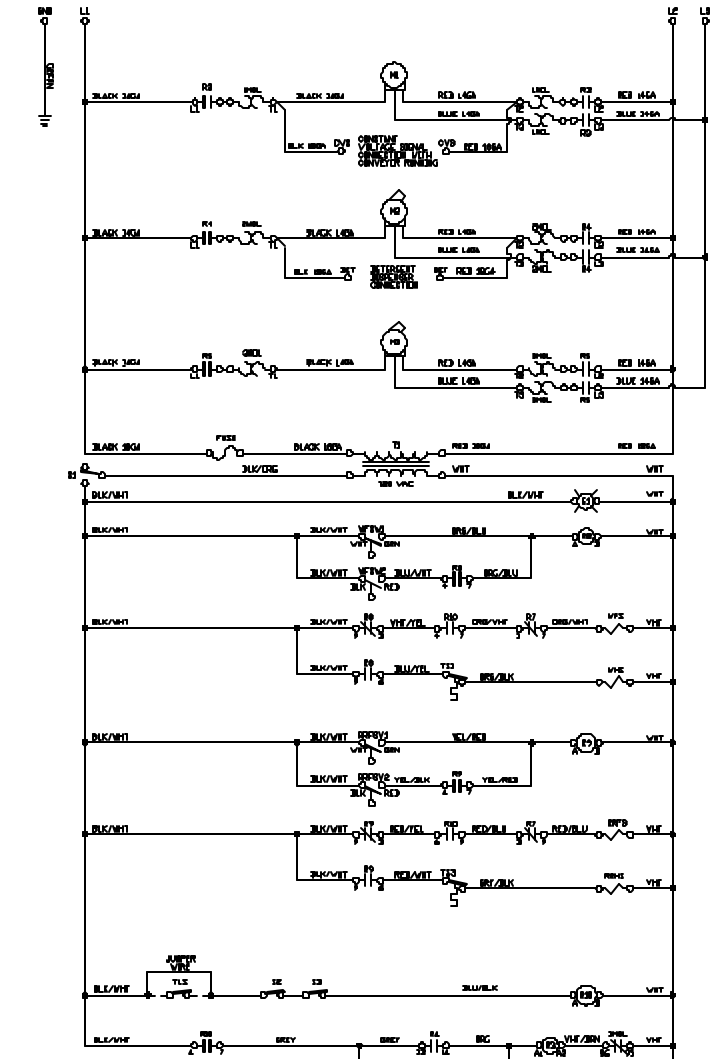


LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
M3	DRIVE MOTOR CONTACTOR
R4	WASH PUMP MOTOR CONTACTOR
R5	R - RINSE PUMP MOTOR CONTACTOR
R6	FINAL RINSE RELAY HI
R7	FINAL RINSE RELAY HI2
R8	WASH TANK FILL RELAY
R9	RECIRCULATING RINSE TANK FILL RELAY
R10	DOOR SAFETY SWITCH RELAY
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	RECIRCULATING RINSE PUMP MOTOR
1MOL	DRIVE MOTOR OVERLOAD
2MOL	WASH PUMP MOTOR OVERLOAD
3MOL	R - RINSE PUMP MOTOR OVERLOAD
CB	CONTROL CIRCUIT BREAKER
T1	CONTROL TRANSFORMER
DET	DETERGENT DISPENSER CONNECTION
CVS	CONSTANT VOLTAGE SIGNAL
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH 1
S3	DOOR SAFETY SWITCH 2
S4	WASH PUMP SWITCH 1
S5	WASH PUMP SWITCH 2
S6	AUTO - MAN/DELIME SWITCH
S7	RECIRCULATING RINSE PUMP SWITCH
S8	FINAL RINSE SWITCH
E1	POWER LIGHT
WHS	WASH HEAT SOLENOID
RRHS	RECIRCULATING RINSE HEAT SOLENOID
WFSV1	WASH FLOAT SWITCH 1
WFSV2	WASH FLOAT SWITCH 2
RRFSW1	RECIRCULATING RINSE FLOAT SWITCH 1
RRFSW2	RECIRCULATING RINSE FLOAT SWITCH 2
TSL	WASH REGULATING THERMOSTAT
TSR	R - RINSE REGULATING THERMOSTAT
CWTS	COLD WATER THERMOSTAT (OPTIONAL)
CWV	COLD WATER VALVE (OPTIONAL)
TLS	TABLE LIMIT SWITCH (OPTIONAL)
WFS	WASH FILL SOLENOID
RRFS	RECIRCULATING RINSE FILL SOLENOID
RS	FINAL RINSE SOLENOID

5905-001-17-06a

AJ-64CS
ELECTRICAL DIAGRAM
460V - 60 HERTZ - THREE PHASE



LEGEND

L1 L2 L3	POWER DISTRIBUTION BLOCK
GND	GROUND
R3	DRIVE MOTOR CONTACTOR
R4	WASH PUMP MOTOR CONTACTOR
R5	R - RINSE PUMP MOTOR CONTACTOR
R6	FINAL RINSE RELAY #1
R7	FINAL RINSE RELAY #2
R8	WASH TANK FILL RELAY
R9	RECIRCULATING RINSE TANK FILL RELAY
R10	DOOR SAFETY SWITCH RELAY
M1	DRIVE MOTOR
M2	WASH PUMP MOTOR
M3	RECIRCULATING RINSE PUMP MOTOR
1MOL	DRIVE MOTOR OVERLOAD
2MOL	WASH PUMP MOTOR OVERLOAD
3MOL	R - RINSE PUMP MOTOR OVERLOAD
FUSE	CONTROL FUSE
TD	CONTROL TRANSFORMER
DET	DETERGENT DISPENSER CONNECTION
CVS	CONSTANT VOLTAGE SIGNAL
S1	POWER SWITCH
S2	DOOR SAFETY SWITCH 1
S3	DOOR SAFETY SWITCH 2
S4	WASH PUMP SWITCH 1
S5	WASH PUMP SWITCH 2
S6	AUTO - MAN/DELIME SWITCH
S7	RECIRCULATING RINSE PUMP SWITCH
S8	FINAL RINSE SWITCH
E1	POWER LIGHT
WHS	WASH HEAT SOLENOID
RRHS	RECIRCULATING RINSE HEAT SOLENOID
WFSW1	WASH FLOAT SWITCH 1
WFSW2	WASH FLOAT SWITCH 2
RRFSW1	RECIRCULATING RINSE FLOAT SWITCH 1
RRFSW2	RECIRCULATING RINSE FLOAT SWITCH 2
TS1	WASH REGULATING THERMOSTAT
TS2	R - RINSE REGULATING THERMOSTAT
CWTS	COLD WATER THERMOSTAT (OPTIONAL)
CWV	COLD WATER VALVE (OPTIONAL)
TLS	TABLE LIMIT SWITCH (OPTIONAL)
WFS	WASH FILL SOLENOID
RRFS	RECIRCULATING RINSE FILL SOLENOID
RS	FINAL RINSE SOLENOID

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